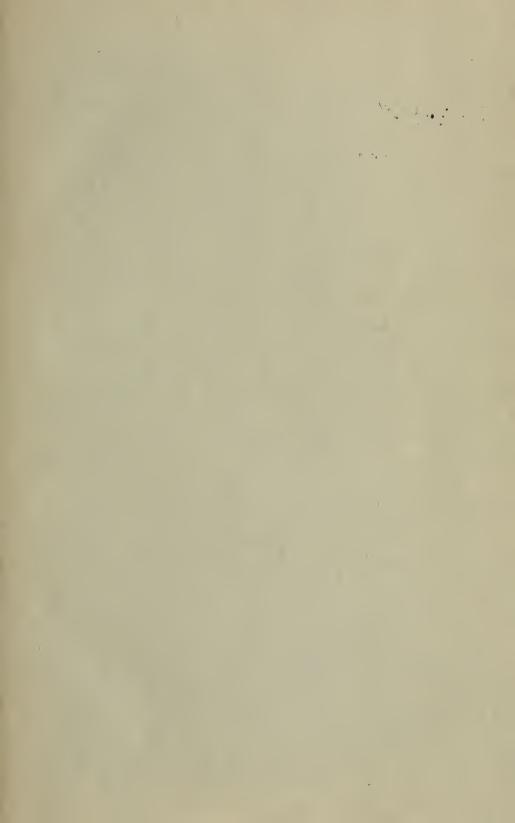


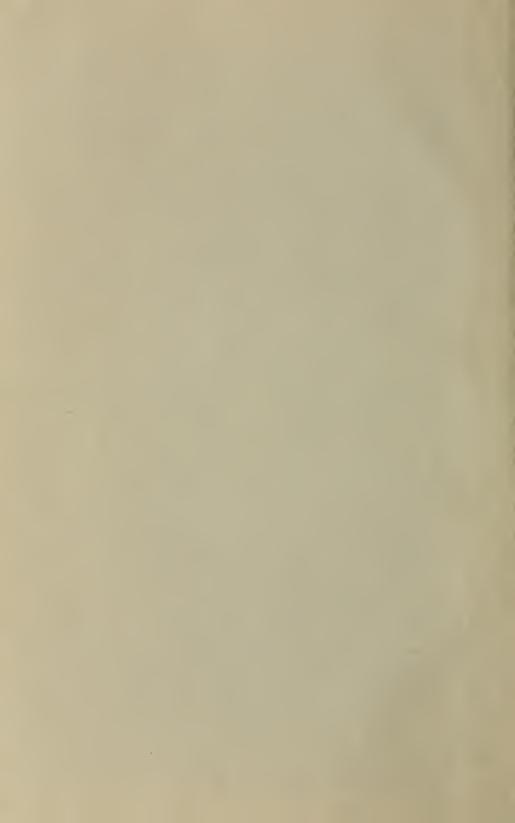




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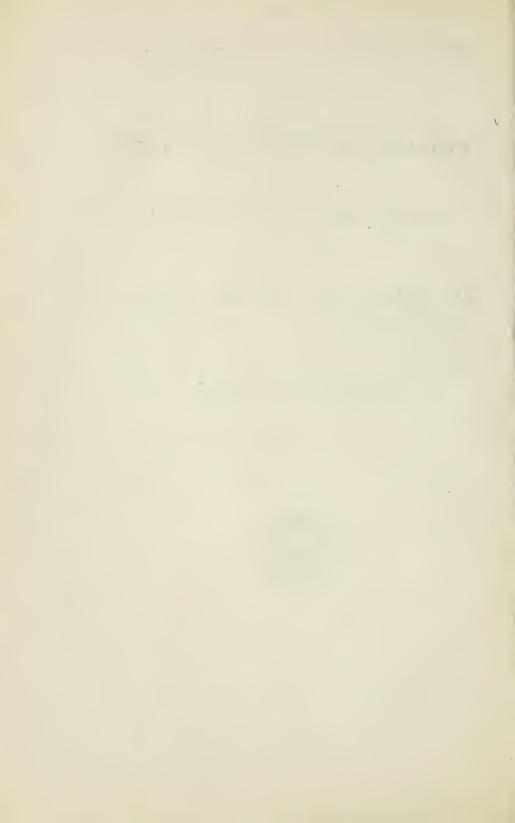
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BEING THE MINISTER OF AGRICULTURE, INDUSTRY AND COMMERCE

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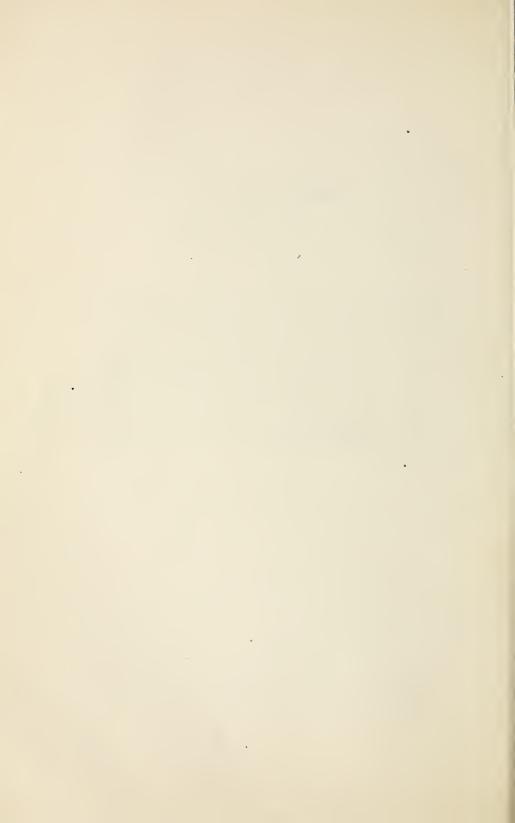




PREFACE

The ensuing pages are a revision of the same work issued in 1916 by order of Dr. José Rufino Beserra Calvacanti, then Minister of this Department.

As now submitted to the public, the work has undergone some amendment, consisting chiefly in the extension of several sections in the measure of the later development of their subjects, the inclusion of a number of articles of recognized utility, and the continuation of the statistical tables down to 1917.



BRAZIL'S FOREIGN TRADE

During the years 1914, 1915, 1916 and 1917



EXPORTATION OF THE TEN CHIEF ARTICLES

DURING THE PERIOD 1913 - 1917

Saromay	FINI		ab	QUANTITUES	202	E	VALU	E IN CON	TOS DE 1	VALUE IN CONTOS DE RÉIS (PAPER)	ER)	VALUE IN	E IN TH	THOUSANDS OF STERLING		POUNDS
		1913	1914	1915	1916	1917	1913	1914	1915	1916	1917	1913	1914	1915	1916	1917
Cotton	Tons	37.424	30.434	5.228	1.071	5.941	34.615	28.247	5.497	2 400	15.091	2.308	1.864	287	120	793
Sugar	*	5.367	31.860	59.074	53.824	131.509	972	092.9	14.430	25 568	68.772	65	373	756	1.286	3.624
Kubber Cacatt	c 3	30.232	40.767	35.105 44.980	43.720	55.622	155.631	30 643	56.140	50.371	143.989 48.084	10 375	7.063	7.040	7.496	7.479
Coffee	1.000 bags		11.270	17.061	13.039	10.605	611.670	439.707	620.485	589.174	440.210	40.778	27.000	32.190	29.279	23 052
Hides	Tons	35.075	31.442	38.324	46.390	32.497	33.390	28 455	57.296	74.284	60.724	2.220	1.806	2.950	3.687	3.202
Tobacco	*	29.388	20.980	27.090	21.293	25.759	24.570	23.585	22.025	50.322	23.438	1.6,8	1.543	1.162	1 529	1.260
Mate	*	05.415	59.354	(5.885)	13.552	58.072	35.450	27.258	35.830	37.122	31.546	2 364	1.662	1.856	1.838	1.680
Skins Chilled-meat	* *	3.232	1.437	8.514	33.661	66.452		8,150	14.391	10.404 28.193	20.304	177	511	310	1.414	3.134
Ten articles			I	1	1	ŀ	931.773	706.410	968 608	1 006.137	012.301	63 110	43 793	50.10%	49 966	47 822.
Miscellaneous	1	1	-	1	1	1	40.958	44.570	54.026	54.026 101.371	224.062	1.730	2.804	2.778	5.044	12.053
Total			1			j	972.731	750.980	750.980 1.022.634	1.107.508	1.135.453	64.849	46.527	52.970	55.010	59.875
Name and Address of the Owner, where the Owner, which is the Owne		-					The same of the same of the same of	-			-					1

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Mean value per unit in réis (paper)

1917	2\$540 \$523 4\$523 4\$238 \$864 1\$868 \$910 \$538 7\$600 \$900
1916	2\$241 \$475 4\$°34 1\$152 45\$187 1\$601 1\$424 \$505 4\$381 \$837
1915	18051 \$244 3\$861 1\$348 36\$368 1\$495 \$835 \$472 \$719
1914	\$928 \$212 3\$388 \$752 393017 \$905 \$874 \$459 3\$277 \$778
1913	\$925 \$181 4\$296 \$803 46\$103 \$952 \$836 \$542 3\$578
JIM	Kilo Bag Kilo
ARTICLES	Cotton Sugar Rubber Cacau Coffee Hides Tobacco Mate Skins Chilled meal.

Mean value per unit in pounds sterling

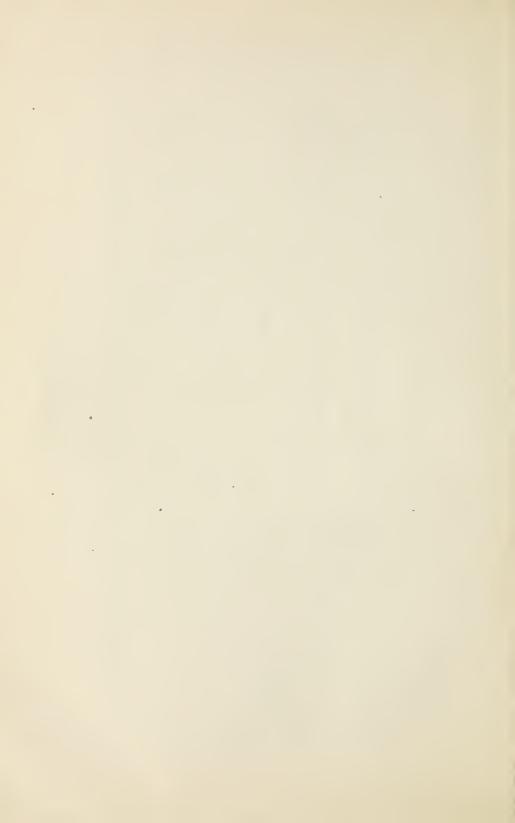
1917	1 s 4 12 d 8 1/4 d 5 s 7 1/4 d 1 s 1 3/4 d 2 s 5 3/4 d 1 s 2 1/4 d 1 s 2 1/4 d 9 s 4 d 1 s 2 1/4 d 1 s 2 1/4 d 1 s 2 1/4 d
1916	2 s 11 3/4 d 6 s 5 1/4 d 1 s 6 1/2 d 2 s 1 1/2 d 2 s 1 1/2 d 1 s 10 3/4 d 5 s 10 d 1 s 1 1/4 d
1915	1 s 4 3/4 d 5 s 1 3/4 d 1 s 7 3/4 d 2 8 8 5 3 4 d 2 8 1 1 1/4 d 1 s 1 1 1/4 d 4 s 2 1/4 d
1914	1 s 2 3/4 d 4 s 6 d 1 s 0 2 £ 12 s 0 1/4 d 1 s 2 1/4 d 1 s 1 3/4 d 1 s 1 3/4 d 4 s 4 1/4 d 1 s 0 1/2 d
1913	1 s 2 3/4 d 5 s 8 1/2 d 1 s 1/2 d 3 1 s 5 1/2 d 1 s 1 1/2 d 1 s 1 1/4 d 1 s 1 1/4 d 4 s 9 4 d 4 s 9 4 d 4
UNIT	Kilos * * Bag Kilo
ARTICLES	Cotton Sugar. Rubber. Coffee. Hides. Tobacco. Mate. Skins.

Rate of exchange, 16 d. per mil réis.

Exportation of Native Goods per Principal Countries of Destination



	7A	VALUE F. O. B. MIL RÉIS PAPER	IL RÉIS PAPER			POUNDS STERLING	TERLING	1
COUNTRIES	1914	1915	1916	1917	1914	1915	1916	1917
Thited States	312 108 000\$	427 094 0008	520.409.000\$	523,052,000\$	19,001,781	22,149,556	25, 831, 905	27.515.861
British Empire	108.000 000\$	125.056.000\$	131.116.000\$	143.269.000\$	6.746.749	6 475.698	6.493.249	7.470.028
Germany	69.565.000\$		1		4,637.337	1		1
France and Colonies	60.938.000\$	116.501.000\$	178.654.000\$	\$000.680.751	3.829.156	6.031.852	8.899.577	8.318.323
Holland	43.848.000\$	63.952.000\$	33.763.000\$	5.988.000\$	2,693,333	3.369.821	1.684.819	320.347
Austria-Hungary	15.243.000\$	1	1	1	1.015.355		1	1
Argentine Republic	36.476.000\$	52.095.000\$	67.993.000\$	102.616.000\$	2,226.042	2.692.439	3.393.699	5 474.617
Belgium	11.393.000\$	1		ı	756.386	1	1	ı
Uruguay	16.853.000\$	35.356.000\$	54,424,000\$	52.563.000\$	1.038.843	1.796.540	2.598.549	2.802.527
Italy	23.897.000\$	32.126.000\$	68.103.000\$	91.803.000\$	1.393.753	1.662.748	3.401.060	4.821.469
Sweden	18,402.000\$	92.645.000\$	31.276,000\$	1.529.000\$	1.068.329	4.775.722	1.531.800	77.674
Spain	4.092.000\$	6.007.000\$	8.993.000\$	15.685.000\$	253.716	308,675	446.859	840.189
Portugal	6.608,000\$	9.291.000\$	6.261.000\$	5.243.000\$	415,583	486.117	313.600	273.807
		_~						



Exportation by States



-	À	ALUE E. O. B. 7	VALUE F. O. B. MIL REIS PAPER			POUNDS STERLING	STERLING	
STATES	1914	1915	1916	1917	1914	1915	1916	1917
Amazonas	62.761.000\$	64.070.000\$	77.706.000\$	71.739.000\$	3.908.249	3.318.871	3.825.440	3.729,597
Pará	57.160.000\$	69.702.000\$	79.303.000\$	79.829.000\$	3,588,175	3.617.783	3.909.906	4.176.790
Marantão	7.875.000\$	10.198.000\$	11.831.000\$	13.217.000\$	496.676	521.832	586.473	693.713
Ceará	13,180.000\$	18.598.000\$	18,509.000\$	17.438.000\$	832.966	959.082	914.557	911.278
Rio Grande do Norte	3.620.000\$	1.327.000\$	1,306.000\$	1.903.000\$	238.517	67.977	64.872	93.799
Parahyba	7.925.000\$	3.368,000\$	3.795.000\$	2.923.000\$	522.464	172.577	187.559	154,530
Pernambuco	19.570.000\$	22.591.000\$	25.566.000\$	52.333.000\$	1.295.948	1.177.672	1,272.008	2.718.133
Alagoas	4.686.000\$	\$000.368.0	3.948.000\$	3.888.000\$	289.152	358.023	196,655	204.125
Sergipe	82.000\$	1	ı	ı	5.117		ı	1
Bahia	64.578.000\$	102.199.000\$	106,468,000\$	102.599.000\$	4.081.699	5.261.535	5.298.650	5.433.332
Espirito Santo	14.761.000\$	22.932.009\$	22.864.000\$	19.083.000\$	932.240	1.180.253	1.133.928	1.008.210
Rio de Janeiro	95.011.000\$	176.355.0u0\$	196.676.000\$	267.155.000\$	5.906.890	9.119,688	9.804.908	14.171.346
S. Paulo	352.949.000\$	465.213.000\$	489.632.000\$	422.335.000\$	21.566.728	24.150.008	24.351.481	22,184.003
Paraná	24.913.000\$	33.565.000\$	35.969.000\$	26.210.000\$	1.521.021	1.737.202	1.782.075	1.390.009
Santa Catharina	3.597.000\$	4.669,000\$	6,420.000\$	10.297 000\$	222.941	240.552	317.827	548.688
Rio Grande do Sul	17.915.000\$	35.468.000\$	49.278.000\$	36.577.000\$	1.129.233	1.800.680	2.440.380	1.986.792
Matto Grosso	4.135.000\$	5.148.000\$	7.817.000\$	8.947.000\$	265.189	266.209	375,384	470.795



PRODUCTS



COFFEE

The notices we have of the introduction and first cultures of coffee in Brazil are vague and contradictory. Several writers affirm, however, and with every appearance of truth, that it was brought from Cayenne, somewhere about 1723, by a Brazilian named Palheto. This man, in spite of the prohibition of the Government of that colony, succeeded in bringing a few seeds to Belém, and from these seeds sprang the coffee cultures in Pará and Amazonas, and, later, in Maranhão.

Coffee growing continued to develop. It was in all probability from the suburban grounds of the Barbadinhos, in Barbonos street, now called Evaristo da Veiga, in Rio de Janeiro, that, in the XVIII century, came the seeds whence sprang the coffee fields in the States of Rio de Janeiro, Minas and São Paulo, the source of the ever increasing prosperity of these States and of the entire country.

The growing of coffee attained to a high degree of development, especially in the States of São Paulo, Minas Geraes, Rio de Janeiro, Espirito Santo, Bahia, Pernambuco and Maranhão. It was also grown in the other States, but on a smaller scale.

In a short time, the Brazilian production attained to two thirds of the yield in the world.

Coffee, by reason of the good returns it afforded, attracted all the energies and efforts of the Nation, and threatened to bring about the dismal situation of a country producing one single culture. But the sudden abolition of slavery in 1888, which caused the upheaval of the national system of labor, together with the superproduction of coffee,

brought about a great fall in the prices, which began in 1894, and only came to an end after the execution of the plan of valorization agreed upon, in 1906, between the Presidents of the three most important coffee States: S. Paulo, Minas Geraes and Rio de Janeiro.

We give below a table showing the exportation during the period 1905-1917.

YEARS	QUANTITY BAGS OF 60 KILOS	VALUE IN MIL RÉIS (PAPER)	EXCHANGE	VALUE IN POUNDS STERLING
1905. 1906. 1907. 1908. 1909. 1910. 1911. 1912. 1913. 1914. 1915. 1916.	10,820,631 13,965,800 15,680,172 12,658,457 16,880,696 9,723,738 11,257,802 12,080,203 13,267,449 11,271,000 17,061,000 13,039,000	324.681:2618 418.34.9:7428 453.764:5718 368.285:4248 533.859:7098 385.493:5608 606.528:9498 609.371:1838 611.669:6738 439.736:0008 620.485:0008 589.174:0008	16 16 15 15 15 16 16 16 15 15 19	21,645,417 27,893,316 28,360,285 23,017,859 33,366,856 25,699,570 40,435,263 46,558,078 38,229,354 27,483,500 32,190,000 29,279,000

RUBBER

During the last twenty years, many Brazilian States have directed their attention to the culture of the rubber-tree, which grows wild in the northern parts of the country.

The chief rubber-yielding plants are: the Hevea Braziliensis, which is the rubber-tree properly so called, the Maniçoba, the Caucho, also known as Castillôa, and the Mangabeira.

The Hevea Braziliensis is met with in a native state in the Acre Territory and in Amazonas, Pará and Matto-Grosso. There are at present numerous plantations in a very prosperous condition in Maranhão, Piauhy, Ceará, Parahyba do Norte, Bahia, Espirito Santo and Rio de Janeiro. This tree produces excellent rubber.

The *Maniçoba* is found wild in vast areas of Maranhão, Piauliy, Ceará, Bahia, Minas Geraes, Goyaz and Paraná. It is cultivated on a small scale in Rio Grande do Norte, Paraliyba, Pernambuco, Alagôas and Sergipe.

The *Caucho* or *Castillôa* is met with in the Amazon valley and in Pará. It is thought by many planters to be one of the most important of the rubber-yielding species.

The Mangabeira is met with throughout the region comprised between the upper Acre and the further extremity of Paraná. Its culture has been attempted in other States, but has subsequently been abandoned, owing to the small returns it has been found to offer in comparison with the other species.

The Amazonian rubber, prepared by the smoking method, is considered by foreign manufacturers to be the best in the world.

The competition of the Oriental plantations has led the Brazilian Government to adopt a number of measures tending to facilitate the native production of rubber.

By Law n. 2.453 A, of January 5th. 1912, exemption from duty is granted on utensils and material intended for the culture, gathering and refining of rubber, a bounty is awarded to cultivators, and Demonstration Farms are created for the same purpose.

By the same law, premiums of 100 to 400 contos are granted to the owners of rubber refineries in Brazil.

Contracts for the payment of these premiums have been signed with two firms, Martinelli & C., with plants in Pará and at Manáos, and Cantanhede de Almeida, established at Pirapora, Minas Geraes.

RUBBER EXPORT

KILOS	ILOS				VALUE F. O.	VALUE F. O. B. MIL RÉIS			POUNDS S	STERLING	į
6161 F161		1916	1917	1914	1915	1916	1917	1914	1915	1916	1917
14.089.623 13.176.624 12.9		12.990.975	14.033.845	56.104:773\$	59.956:751\$	56.104:773\$ 59.956:751\$ 70.850:060\$ 66.494:666\$ 3.506.548 3.106.515	66.494:666\$	3.506.548	3.106.515	3.542.503 3.499.720	3,499.720
192.934 139.810 1		114,434	30.870	756:519\$	556:460\$	568:581\$	141:431\$	47.282	28.832	28.429	7.444
16.800.149 17.444.889 15.18		15.189.178	16.826.956	50.974:771\$	62.721:369\$	50.974:771\$ 62.721:369\$ 70.182:664\$	67.210:805\$	3.185.923 3.249.812 3.569.133 3.537.410	3.249.812	3.569.133	3.537.410
63.022 35.208 51		51.665	33.427	154:608\$	114:955\$	255:972\$	163:331\$	9.663	5.956	12.798	8.596
363.042 30.349 4		4.685	3.906	919:326\$	48:554₩	16:667#	11:933\$	57,458	2.515	88 88 88	828
38.855 81.149 28		28.199	154.120	124:229\$	355:576\$	126:730\$	1.136:000\$	7.764	18.424	6.336	59.789
8.403 5.239 42		42.259	4.263	10:902\$	22:911\$	197:470\$	21:315\$	662	1.187	9 873	1.122
			970	1	I	1	5:122\$	1	1	ı	269
494.824 637.196 445		443.902	482.889	1.484:364\$	2.122:583\$	1.914:856\$	2.248:852\$	92.772	109.980	95.742	118,360
1.480.637 3.614.844 2.629.404		.404	2.408.600	3.068:827\$	9.886.570\$	8.126:480\$	6.555:5698	191.802	512.257	406.324	345.030
		-						1			

COTTON

The culture of cotton has now attained a high degree of importance in Brazil. As an item of exportation, it holds the seventh place, after coffee, rubber, mate, hides, cocoa and tobacco.

In 1912 the exportation of cotton reached 16.774 tons, representing a value of (Lb. 1.037.395) 15.560: 935\$000.

But the greater part of the production is consumed within the country. With the exception of the agricultural industries, cotton spinning and weaving industry is at present the greatest, and one of the most prosperous, absorbers of capital in Brazil.

Unfortunately we have no statistics giving the exact figures of the home consumption of cotton in kilograms, and which might enable us to estimate exactly the total production.

But even so, the statistics which we have, show that there exist in Brazil, at present, 240 factories, the total production of which reaches, 470.783.355 metres of various stuffs.

We think there is no exaggeration in estimating, from these figures, the total production of Brazil at 90 thousand tons of raw cotton, representing an average value of \$56.000.000.

It is clear that the development of cotton-raising in Brazil has been hitherto entirely due to the natural conditions of soil and climate, for the culture and preparation of this product has been carried on almost entirely by the most primitive methods. This proves in a most eloquent manner that the soil and climate of Brazil are in many places privileged indeed for the culture of cotton. This fact, indeed, cannot be doubted, when we bear in mind that, in certain sections, as, for instance, the high table-lands of Rio Grande do Norte, the cotton plant, by purely natural means, attains to the size of a veritable tree, which, during a period of from 10 to 12 years, continues to bear almost unceasingly, the only interruption being during the short wet season of the year.

This fact, without a parallel in the annals of cotton growing, has excited the admiration of many specialists who have visited Brazil with a view of studing the natural conditions of this culture from the point of view of soil and climate. And this fertility, this exuberance of the vegetation of the plant, does not exclude those qualities which are most sought after in this product by the buyer and manufacturer.

The cottons of Maranhão are reputed among the best, as well as those of Alagôas and Pernambuco. As to those of Rio Grande do Norte, the Seridó cottons with long staple, supple and silky, are quoted in the foreign markets as a product of exceptional quality, and always command a higher price than any of the others.

Now, these several results, which are encouraging in the highest degree, as constituting an actual success, and which show that the cottons of Brazil have obtained a place of honor in the markets of the world, have been arrived at merely by natural conditions, without any selection of seed, choice of land or tillage of the soil, without, in short, any kind of method, and we might even say, in utter ignorance of the improvements which science has introduced in the culture and preparation of cotton in other countries, where their application, in otherwise adverse circumstances, has constituted the growing of cotton an industry of colossal importance.

The above-mentioned facts have long been the object of the special attention of the Minister of Agriculture.

A professional school, with a demonstration farm attached, has already been established, and is now at work in

the State of Paraliyba do Norte; another will follow, within the budget resources.

A contract has been signed with Dr. Pedro de Almeida Godinho, in connection with the rational culture of the cotton plant and the preparation of cotton by the most modern and improved methods.

The Federal Experiment Station at Coroatá, in the State of Maranhão, is doing good work towards the improvement of the culture.

Professor Green, of the United States Department of Agriculture, came to Brazil in 1913, for the purpose of investigating our cotton species and varieties, and selecting those breeds which are capable of yielding the best returns. He opened a demonstration field at Coroatá, which is now under his direction, and which is expected to be very useful in many senses, and specially in effecting a proper selection of breeds and in keeping agriculturists in touch with the modern methods of culture. By Decree n. 11.475, of February 5th. 1914, a special Cotton Bureau has been established under this Ministry, Professor Green having been appointed Superintendent of the work.

COTTON—EXPORT

		KILOS	SO		7.	VALUE F. O. B. MIL RÉIS	B. MIL RÉIS		=	POUNDS STERLING	TERLING	
	1914	1915	1916	1917	1914	1915	1916	1917	1914	1915	1916	1917
Belém do Pa- rå	3.965	1	10.326	17.111	3:680\$		23:146\$	54:867\$	245	!	1.157	2.888
Maranhão	813.327	166.216	ı	364.415	754:767\$	174:860\$	1	1.007:662\$	50.318	9.203	1	53,035
Ilha do Caju-	1.035.095	287.245	1	100.588	960:568\$	302:181\$	I	271:237\$	64.038	15.904	1	14.276
Fortaleza	5.018.857	101.800	2.559	1.089.224	4.657:500\$	107:093	5:734\$	2.916:779\$	310.500	5.636	948	153,515
Natal	1.934.861	18.077	4.330	561.220	1.795:551\$	19:017\$	9:703\$	1.280:134	119.703	1.001	485	72,638
Cabedello	6.873.559	149.136	I	241.728	6.378:663\$	156:891\$		616:336\$	455.244	8.257	1	32.440
Pernambuco	12.(98.643	4.504.829	1.011.495	3.539.074	11.227:540\$ 4.739:051\$		2.206:760\$	9.784:642\$	748.503	249 425	113.338	514.981
Maceió	1.648.285		1	ı	1.529:608\$	1			101.974		1	1
Rio de Janei- ro	15 525	1	39.419	13 512	14:3978		88:340\$	45:651\$	096		4.417	2.403
Santos	6.632	366	2.813	4.244	6:1548	280\$	80008:9	11:303\$	410	15	315	295
											-)	

COTTON—SEED EXPORT

		KILOS	80	1	Λ	ALUE F. O.	VALUE F. O. B. MIL RÉIS	x		POUNDS 8	POUNDS STERLING	
	1914	1915	1916	1917	1914	1915	9161	1917	1914	1915	9161	1917
Belem (Pará).	-		10.595	19.115		1	1:259\$	3:482\$			530	1.008
S. Luiz (Marranhão)	(153,650	I	2.355.541	3.218.043	76:293\$	1	224:210\$	355:987\$	5.08 6		11.210	18.736
Ilha do Caju- eiro	750.178	616.170	715.931	4.866.373	63:214\$	49:292\$	66:137\$	530:446\$	4.215	2.554	3.306	27.918
Camoeim	I			132.000	1	1	!	17:000\$	distance.			900
Fortaleza	992.654	1	1	6 487.653	38:500\$	1	1	746:253\$	2.566	1		39.277
Natal	1.245.910	1	567.475	582.700	109:663\$	1	74:764\$	\$1:754\$	7.310	1	3.738	3.250
Cabedello	6.651.929	2.504.500	5,269.849	2.835.530	475:090\$	207:713\$	688:749\$	288:014\$	31.672	10.762	34.437	15,160
Recife	13.695.360	6.360.637	2.561.286	2.626.853	992:966	525:911\$	337:572\$	231:534\$	66.197	27.250	16.878	12,186
Maceió	6.184.976	530,252	281.008	1.998.424	385:921\$	14:317\$	16:860\$	113:270\$	25.594	741	843	5.962
Aracajú	379.680	1	- (1	25:498\$]	1	1	1.700	!	1	
Bahia	165.609	5.968	1	115.290	12:008\$	406\$	1	23:048\$	800	<u>a</u>		1.213
Rio de Janeiro	I	J	100	1	1	1	18\$	J	J	1	0,18s	
Santos	[1		120	1	1	I	15\$		1	1	0,16s
				1				,		_		



CEREALS

On all the table-lauds of the Brazilian States the Cereals grow at a very wonderfull rapidity, with a great result for the growers.

IVHEAT — The cultivation of the wheat in the Southern States of Rio Grande do Sul, Santa Catharina, and Paraná was very intensive in the Colonial times.

Unfortunately this cultivation did not last a long time; it decreased and was abandoned in the beginning of the nineteenth century, on account of various diseases such as rust, carbuncle, and caries.

In 1900 however, new attempts were made with some successs in the Southern States, in S. Paulo and in Minas Geraes, under modern methods.

The yield of the wheat in 1916 amount to more than 100,000 tons.

There are in Brazil some great Flour-Mills, such as The English Flour Mill at Rio de Janeiro, The Santista Mill and The Matarazzo Mill in the State of S. Paulo, and The Matarazzo Mills at Paranaguá and Antonina in the State of Paraná, which are supplied almost wholly with wheat coming from Argentina.

RICE — It is far otherwise what concerns rice and other cereals culture.

In the States of Rio de Janeiro, S. Paulo, Minas, Rio Grande do Sul and Paraná the rice cultivation is very up-to-date.

To come to the proof of the increasing out-put of the rice yielding in the last years we only want to refer that the rice exportation in 1915 was of three tons while in 1917, the past year it was of about 40.000 tons.

MAIZE — This grain is growing everywhere in Brazil, where also the soil is considered unfitted for other cultures.

There are more than twenty kinds of maize.

The States that export the largest quantity of maize are S. Paulo where the production is over 15.000.000 sacks per annum, Minas Geraes and Rio de Janeiro.

The difference between the maize exports in these last three years is very remarkable; while the exportation was quite not any in 1915, in 1916 it was scarcely of 3.108 tons, in the past year (1917) it amount to 25.506 tons.

BEANS — The common food of the most classes in Brazil are the beans. Its kinds are very numerous but the most cultivated is that of a black colour. Beans growing is made in all States of Brazil. The yield of the beans was extraordinary increased these last three years in consequence, of course, of the European war.

The exportation of beans was of 276 tons in 1915, in 1916 it was of 34.884 and in 1917 this exportation amount to almost 100.000 tons.

HIDES AND SKINS

The hides of oxen, sheep, goats, etc., constitute a considerable source of income, owing to the existence of a number of shoe-factories, etc., which supply products capable of competing with the best foreign manufactures.

The skins of wild animals might constitute an important article of exportation, not only for their beauty, but for other reasons; but, unfortunately, in the most cases, they are not offered for sale in perfect condition, which is generally due to bad shooting. It usually happens that hunters do not take into account the marketing of the hides, and consequently do not select the proper grade of shot, which should vary with the size of the animal, nor do they aim at determined parts of the body with a view to avoid damage to the skin.

But even so, the skins have a certain value, and are sometimes in demand, notwithstanding their defects. Among the skins of easiest sale are those of the ratão dos banhados, (Mopotamus coypus, Motina) and the Quija of Paraguay (Myopotamus coypus), which are sold in the foreign markets under the Spanish name for American Beaver. They appear every year in considerable quantities on the markets of Europe without any discrimination of origin.

The Ratão da America is the legitimate representative of the beaver of the Old World, and the fur of this animal, properly prepared, costs from 40 to 70 mil réis per kilogram. It is used in the manufacture of so-called beaver hats.

Among the skins of other animals, we shall mention those of *onças*, *antas*, wild-hogs, *lontras*, *tamanduás*, deer, etc., the last of which figure most in tables of exportation.

The prices of the various skins vary considerably, according to the species and condition. In Minas, the skin trade is somewhat extensive, especially in the Minas Triangle. The skins most in demand are: onça skins (price from 30 to 100 mil réis); anta skins, much sought after for their resistance, and used in the manufacture of saddles, harness, whips, sandals, etc. (price, from 1\$300 to 1\$400 per kilogram); lontra skins, which average 50 mil réis.

Deer skins are very much in demand, especially those of the *matteiro* species (*cervus rufus*, Cuv.), which reach 50 mil réis per dozen, they being considered superior to those of other deer, which are sold at from 3 to 5 mil réis each.

In all the States of Brazil, the skins of wolves, tamanduás (used for dust-brushes), wild-cats (very abundant along the shores of the São Francisco), *iráras* (used for making pistol and gun-cases), *capivaras* (held in high esteem by the backwoodsmen for making knee-boots), wild hogs (much esteemed for their resistance), and many others, have no fixed value, the price varying with the demand.

The silky skins, especially those of the tails of a number of monkeys, are used in France and England in the manufacture of muffs.

The principal monkey skins used for this purpose are those of: the black guariba, or bearded monkey (mycetes niger), the muriqui (eriodes hypoxantus, Desm), the eia (nictepthecus trivirgatus, Humb) the prego, or nail monkey (cebus mascephalus, Lin), etc.

HIDES - EXPORT

1914 1915 1916 1917 1914 1915 1916 1917 1914 1915 1916 1917 1914 1915 1916 1917 1914 1915 1918			113	80113			VALUE E O	VALUE R O R MIL BÉIS			SULTABLE SURFICE	PERTING	
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130 904 257 :02 18	Recife	602,653	1 012.925		542,021	\$067:00L	1.483:970\$	1.765:554\$	1,317:027\$	43.768	76,889	88.278	69.317
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Signature Sign	Baltia	4.604,166	6.694.548	.734.			14.683:065\$	17.538:355	13.984:550\$	383.493	760.827	896.918	736.030
Total Color	Victoria	83.169	22,855	23,603		38:751\$	35:122\$	\$541:65		2.422	1.823	627 6	1
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SKINS—EXPORT

		KII	KILOS			VALUE F. O. B.	B. MIL RÉIS			POUNDS	POUNDS STERLING	
								1				I
	1914	1915	1916	1917	1914	1915	1916	1917	1914	1915	1916	1917
Manáos	6.293	6.470		10.926	\$5.55 \$7.56 \$7.56	10:50.08	14:638\$	91:433\$	53.00	544	739	1 198
Belem do Pará	69.383	83.209	98.883	184.541	97:181\$	157:413\$	320:875%	7.98:710\$	6.074	8,156	16.044	42.037
S. Luiz do Maranhão	52.886	73.228		36.229	15::233	176:8738	247:1148	141:358\$	4.706	9.164	12,356	7,440
Ilha do Cajueiro	39,537	94,858		1	108:3:3\$	151:903\$	290:150\$	1	6.771	£28 L	14.508	1
Fortaleza	588.172	1.089.272	612.970	413.012	2.02:500\$	3.199:600	2 512:900\$	2.920:8148	130.806	165.782	125.645	153.727
Cologonia	100.150	193.642		900.6	BOTT: BAC	944:0608	376:9968	92:3028	36.822	28.216	18.849	4.758
Recife	955 691	500.000		107.455 226.064	010:7398	1.070:078	2. CONTRACTOR	9.CTX::CTX::	50.43X	SI.062	100.466	1.64.150
Maceió	485 778	863 300		359 896	1 X599.761#	9 940.8998	0.014:0140	1 0000.030#	050.111	152 411	110.713	155.250 68.450
Bahia	581,883	1,152,442	983	1. 295, 977	1.956:3128	3.785.9768	4 500:0728	10 724:9108	199 970	196 164	955 104	564 470
Victoria			o.				#06					
Rio de Janetro	43	40.160	141.984	31.709	450\$	153:0708	777:48:8	248:7028	100	7 931	38,874	13.000
Santos	370	10	12.238	10.937	7758	1008	55:018\$	43:035%	48	5	2.701	2.265
Rio Grande	351	7:27	1.782	1.956	295	40017	2:595\$	1:697\$	18	17.	130	6×
Pelotas	3.496	577	4.785	1	97:1:5	1:495\$	20:000	1	170	22	1.000	
Soute Wieteric	0.230	4.084	412	1	£378	1:110%	8524		51	33	41	ì
Palmar	2.273	1.\033	1.516	1	1:288\$	1:703\$	2:351\$		81	3. 3. 3. 3.	118	(
Sant'Anna do Livra-												
mento	!	1.105	362	1	1	2:863\$	\$889 \$88€		1	148	34	1
Quarahy	210	77.579	2.134	1	1688	127:310\$	4:223\$		10	6.600	211	
Urnguayana	i	89.209	42.129	1		146:2948	84:1288	1		7.580	4.206	1
Itaqui	009	25.612	11.082	1.594	1:200\$	42:123\$	21:656\$	2:199\$	16	2.182	1,083	115
S. Borja	1	5.191	25.973	1	1	8:8678	51:831\$		1	460	2.592	
Porto Murtinho	157	685	123	SF1	446\$	1:063\$	7438	1:644\$	857	55	37	98
Corumbá	2.871	2.583	3.442	812	5:773\$	6:4368	\$680:8	3:2108	361	534	404	169
=												

SUGAR

After coffee and rubber, sugar is the product which contributes most to the receipts of the country.

Sugar-cane finds in Brazil wonderful conditions of adaptability, and sugar alone, were it exploited to its full extent, would bring to Brazil returns unequalled in any other part of the globe.

Introduced a few years after the discovery of Brazil, sugar cane was cultivated simultaneously in Pernambuco and S. Paulo. During a long period, the production of Brazil held sway in the markets of the world. There are places where the same variety of sugar-cane has been grown continually for more than two hundred years, without any attempt on the part of the planters to restore to the soil the fertilizing elements thus incessantly withdrawn. Consequently, the returns per hectare have decreased until, at the present day, the total sugar production of Brazil does not exceed 300,000 metrical tons.

The starting of the culture in the west Indies, in Central America, and in other parts of the world, and the manufacture of beet-sugar in the beginning of last century, contributed to the fall of Brazil from the first place to the sixth, among the sugar producing countries. But these were not the only causes. The growing of sugar-cane in Brazil with rare exception, is carried on by antiquated and anti-economical methods.

We have not yet any industrial establishments possessing the requisite elements for the extraction from the cane of a percentage of sugar equal to that obtained in Hawaii, Cuba, Java, Louisiana, etc. In order to promote the expansion of the sugar-cane industry, the Government has adopted a number of measures, among which we shall mention the creation of experiment stations, intended to provide pratical information to planters.

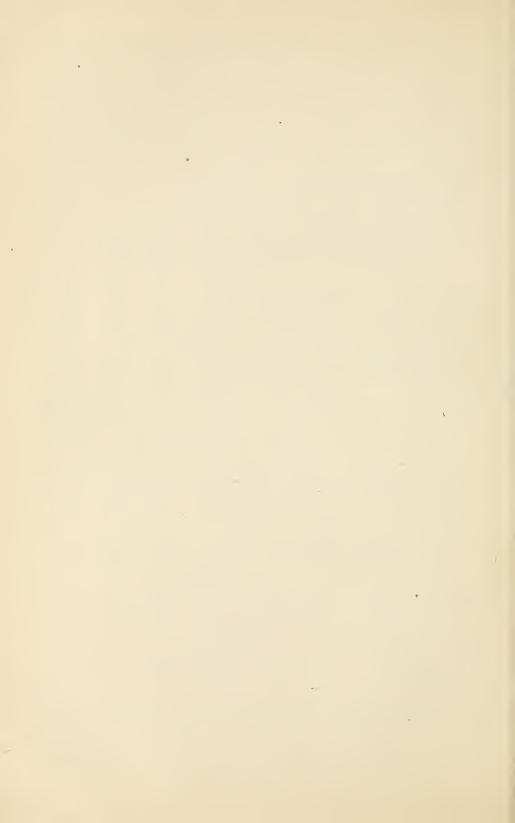
The States in which the culture of sugar-cane is most developed are Pernambuco, Ceará, Parahyba, Rio Grande do Norte, Alagôas, Sergipe, Espirito Santo, Minas Geraes, Maranhão, Rio de Janeiro, and S. Paulo. But sugar-cane is cultivated in all the remaining States, although on a smaller scale than in the above region, the Brazilian Northeast.

SUGAR - CANE

	Tons of Cane per	Proportion of
	hectare. 2 1/2 acres.	Sugar, per cent.
Egypt (with irrigation)	38.5	11 to 15
Argentina	40	11 to 12
Java, intense culture	80	14 to 15.5
Sandwich Islands	82	15 to 15.5
Louisiana	50	11 to 13
Cuba	50	13 to 15
Demerara	62	
Queensland	46	
São Paulo (Brazil)	50	13 to 14.5
Campos (Rio de Janeiro)	50	14.5 to 15.5
Pernambuco (Brazil)	50	11 to 12.1
Parahyba (Brazil)	40	11 to 12.1
Sergipe (Brazil)	54	11 to 12.5
Rio Grande do Norte (Brazil)	50	11 to 12.0
Alagôas (Brazil)	55	12 to 15.0
Bahia (Brazil)	45	11 to 12.0

SUGAR EXPORT

		KII	KILOS			VALUE F. O.	VALUE F. O. B. MIL RÉIS			POUNDS STERLING	TERLING	
	1914	1915	1916	1917	1914	1915	1916	1917	1914	1915	1916	1917
Manáos	5.250	3.000	210	580	3:745\$	1:500\$	168\$	580\$	234	22	œ	31
Belem	2.500	1.505	82.162	8.951	1:250\$	\$099	65:868\$	8:780\$	28	34	3,293	462
S. Luiz (Marranhão)		986	2.250	5.230	Ī	40\$	9958	3:925\$		হয	50	207
Ilha do Caju- eiros	_	1	360		1	1	240\$	1	1	l	13	1
Fortaleza	.	-	130	130		1	\$06	\$001	.		4	õ
Natal	101.210	89.760	161.150	379.968	20:251\$	16:329\$	54:531\$	87:773\$	1.265	954	2.726	4.620
Cabedello	1	30.000		2.084.215	ı	5:490\$	ı	556:242\$	[584	1	29.276
Pernambuco.	22.828.741 37.981.653	37.981.653	34.080.696	75.149.359	4:668\$939\$	9.331:901\$	14:372\$524\$	33.551:493\$	291.808	483.518	718.626	1,765.870
Maceió	5.076.307	17.401.536	1,891.339	5.695.413	856:312\$	3.665:832\$. 600:476\$	1.927:368\$	53.519	189.940	30.054	101.441
Bahia	214.050	1.774.612	2.791.076	9.599.680	. 77:508\$	668:575\$	1.699:598\$	6 152:917\$	4.844	34.640	84.980	323,840
Rio de Janei- ro	3.632.104	1.701.166	14.560.307	36.013.374	1.137:710\$	696:224\$	8.597.917\$	24.774:322\$	711.107	36,073	429,896	1.303.912
Santos	09	3.000	3.623	2 034 429	30\$	1:500\$	2:440\$	1.404:027\$	\$1	1.1	193	73.897
Itajalıy	[-		12.000	ı		1	4.812\$	1	1		254
Florianopolis.		18.000	183.000	324.000		8:793\$	128:118\$	160:608\$		455	6.406	8.454
Ports of Rio Grande do Sul	120	165.935	681.661	199.198	\$G	87:224\$	443:765\$	136:479\$	ব	4.520	22.188	7.182



HERVA MATE

Mate or Herva Mate, is a product of South America, obtained from the leaves and twigs of the «congonha» tree, ilex mate, ilex paraguayensis, of the family of the Ilicineas or Ilicaceas.

The full-grown, cultivated, mate-tree bears a certain resemblance to the orange-tree. It is leafy and elegant, and measures about eight metres in height. Its leaves are subcoriaceous, oblong, lanceolate and of varying size.

According to *Martius*, Mate grows best between 20 and 30 degrees of lat., which corresponds in Brazil to the south of Matto Grosso and Minas, and the whole of São Paulo, Paraná, Santa Catharina and Rio Grande do Sul. But there is no doubt that the most important Mate State in Brazil is Paraná, after which follow in order Matto Grosso, Rio Grande do Sul, Santa Catharina, S. Paulo, etc.,

Production of Mate — The total production of Mate has been estimated by the French commissioner M. Barbier, at 50.000.000 kilos per year. The State of Paraná alone produces more than three fifths of all the Mate consumed in the world, and only a part of its herva fields are being exploited.

The total Mate exports of the State is estimated at more than 30.000.000 kilos per annum.

Price of Mate — The mate industry being purely extractive, and not envolving expenses of cultivation, it is comparatively cheap. A kilo of Mate in Paraná costs from 300 to 500 réis, that is, from 10 to 16 2/3 cents.

Mate is usually exported in pine kegs and barrels, cardboard packets and small tins. The Paraná product is equal in quality to the best Paraguay, to which it is superior in preparation and packing.

Properties and uses — Mate is the true succedaneum of tea whose virtues it possesses without its defects.

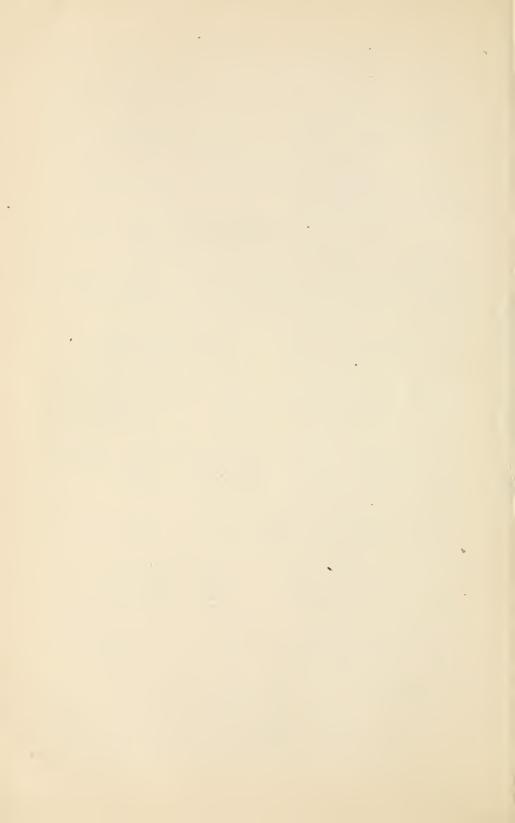
It is a stimulant tonic, which property renders it an excellent drink for the sick and for convalescents.

A hygienic and harmless beverage, Mate is certainly a good substitute for alcoholic drinks and a powerful weapon in the hands of temperance societies against the greatest scourge of mankind drunkenness.

Mate is mildly laxative, and is diaphoretic and diuretic. It stimulates torpid nutrition and activates the bodily functions. It excites the muscular energy, accelerates the pulse and respiration, and induces a sense of well-being and increased intellectual lucidity and vigor.

HERVA MATE - EXPORT

		, KII	KILOS			VALUE F. O.	VALUE F. O. B. MIL RÉIS			POUNDS STERLING	STERLING	
	1914	1915	1916	1917	1914	1915	1916	1917	1914	1915	1916	. 1917
Rio de Janei- ro	23.604	24.614	8.320	13.479	12:537\$	13:458\$	4:571\$	7:173\$	783	769	218	377
Santos	1,415	45.082	113.493	133.266	1:050\$		60:0848	70:123\$	ež.	1.515	3.004	3,690
Antonina	25.019.443 15.819.308	36.877.641 17.095.056	31.337.184 15.770.037	15.113.838 18.517.743	7.678:900\$	18.466:188\$ 8.622:204\$	16.826:842\$ 8.459:566\$	8.477:450\$	756.646 479.931	956.797 446.746	841.342	446.182 550.113
Fóz do Iguas- sú	6.444.683	8.115.881	9.779.924	6.588.796	3.161:169\$	4.090:809\$	5.230:284\$	3.612:408\$ 197.573	197.573	211 949	261.514	190.126
S. Francisco.	6.280.007	9.468.832	11.334.791	12.612.070	2.323:604\$	3.503:465\$	5.050:441\$	7.314:995\$	145.225	181.526	252.552	384.999
Itajahy		3.516	1	-		850\$	1	1		45		1
Florianopolis	1	1	3.000	1	-	1	1:110\$				15	1
Laguna	1	1	18,000	27.000			\$099:9	15:660\$::33	894
Pelotas		1	1	48.725	1	1		17:209\$		71	1	305
Porto Alegre.	5.016.732	4,095.389	4.619.700	4.479.431	1.382:5553	1.058:014\$	1.290:125\$	1.327:244\$	86.410	54.819	909.19	69.855
San. ¹⁸ Victoria do Palmar.	1	59.813	27.078	40.068	1	15:911\$	7:605\$	12:105\$	1	824	088	789
Juguarão	1	23.136	I	67.217		5:885\$		23:796\$		305	1	1.252
Sant'Anna do Livramento	1	149.683				42:211\$				2.187		1
Quarahy	1	27.435		-		7:737\$		1	ŀ	401		ı
Uruguayana.	1	204.978	485.148	640.111	1	57:302\$	138:3448	198:189\$		2.970	6.917	10.431
Itaquy	20.350	63,831	54.353	69.913	5:581\$	17:609\$	15:4598	17:588	348	912	773	925
S. Borja	11.245	74.631			2:816\$	21:046\$	1		176	1.090		1
Nhu-Verá	660.800	22.400	1	1	404:411\$	15:770\$	1		25.275	817	1	1
Corumbá	1	I	966	292	ı	1	6:34\$	210\$			윒	11
						•						



THE COCOA-BEAN

(CACAU)

The *habitat* of the cocoa-bean in Brazil lies between 23° N. lat. and 22° lat. S. and embraces the States of Bahia, Sergipe, Espirito Santo, Pernambuco, Rio Grande do Norte, Ceará, Piauhy, Maranhão, Amazonas, Pará, and Rio de Janeiro.

Ten varieties are cultivated in these zones. In Bahia, which is the greatest producer of the cocoa-bean, the three following varieties are grown:

Cacau do Pará and Cacau Maracajú, which thrive prodigiously all over the State.

In reponse to the demands of the world's consumption, the culture of the cocoa-bean in Brazil has increased amazingly, extending over a vast area.

The chief port of exportation is Bahia, and the next in order, Pará.

The product is exported in the grain, in bags, after the proper processes of preparation.

Brazilian cocoa is now held by consumers to be the best in the world.

The establishment of systematic cultures, which has already been started in several States, and the favors which the Government is wisely extending to this product, will shortly render Brazil one of the largest producers of Cocoa in the world.

COCOA—EXPORT

		KII	80113			VALUR F. O. B. MIL RÉIS	B. MIL BÉIS			POHNDS STEBLING	TERLING	
	1914	1915	1916	1917	1914	1915	1916	1917	1914	1915	1916	1917
Manáos	132.866	123.963	128.766	242,739	81:095\$	113:400\$	137:795\$	181:126\$	5.068	5.875	068.9	9.533
Itacoatiara	902.327	577.731	469.616	221.863	541:143\$	497:871\$	492:021\$	182:435\$	33.821	25.796	24.601	9.602
Obidos	77.830		1	l	47:236\$	ı	1	1	2.952		1	I
Belem do Pará	2.895.810	3.542.858	2.775.175	4.255.067	1.836:188\$	3.516:354\$	3.290:561\$	3.811:681\$	114.762	182,194	164 528	200.614
S. Luiz do Marranhão	9.364	5.926	4.062	5.210	7:963\$	5:063\$	4:025\$	4:343\$	498	262	201	661 G
Fortaleza	2.74	1.885	1.193	1.771	2:029\$	2:500\$	2:200\$	2:150\$	127	129	110	113
Recife	20.192	206.252	213.841	2.288	13:319\$	182:282\$	177:814\$	1:657\$	832	9.445	8.890	S
Bahia	36.345.421 37		124.603 36.723.315 44.537.063	44.537.063	27.810:208\$	47.537:936\$	41.754:443\$ 37.495:015\$	37.495:015\$	1.738.138 2.463.105 2.087.722 1.973.422	2.463.105	2.087.722	1.973.422
Victoria	2.166	3.083	2.004	0.600	1:289\$	3:316\$	3:509\$	6:769\$	98	172	175	356
Rio de Janei- ro	378.000 3	3.393.673	3.379.560	6.203.918	302:400\$	4.280:826\$	4.481:574\$	6.253:207\$	18.900	221.804	994.078	329.116
Santos		1	22.560	145.320	-	1	27:229\$	46:000\$	1		1.361	2.421

TOBACCO

The Tobacco-plant has been cultivated and exported from Brazil from time immemorial, and during the last three centuries it has been one of the most important articles of production.

Its culture is effected on a large scale in the States of Bahia and Rio Grande do Sul, and on a smaller scale in Rio de Janeiro, Minas Geraes, S. Paulo, Goyaz, Paraná etc.

The largest exportation of Tobacco is from the State of Bahia, in the leaf. Cigar-making and the preparation of Tobacco have made enormous progress in Brazil during recent years, the cigars of several factories of Bahia and Rio Grande do Sul being so good that connoisseurs are often in doubt whether to prefer the Havana or the pure Bahia.

The largest buyer of Brazilian Tobacco is Germany which in 1912 imported 19.236.000 kilos of Tobacco, equivalent to 2/3 of the total exports.

If we consider the growing importance of Tobacco raising in Brazil, especially in the State of Bahia, and the excellent methods of culture now being adopted, we cannot fail to foresee that the production will shortly be trebled, while the quality of the product will be improved to a degree that will place it on the same level with that of Havana.

TOBACCO - EXPORT

		KII	KILOS			VALUE F. O. B.	B. MIL RÉIS			POUNDS STERLING	FERLING	
	1914	1915	9161	1917	1914	1915	1916	7161	1914	1915	1916	1917
Belem do Pará	911	318	4.455		2:030\$	930\$	15:592%	l	126	48	180	
Recife		1	89.817	L-s	•		130:483\$	358	-		6.524	1,16
Balria	26.192.882.26		223.401 19.219.364 22.237.361	22, 237, 361	22.906:915\$	21.745:572\$	21.745:572\$ 27.982:529\$ 18.695:795\$	18,695:795\$	1.431.682 1.126.725 1.399.126	1.126.725	1.399.126	983.930
Rio de Janei-	79.503	177.052	1.176.132	483.524	83:520\$	210:019\$	1,408:2058	742:655\$	5.245	10.882	70.410	39.087
Santos	1	127,305	72.820	956.142		97:029\$	97:79(\$	1,400:824\$	1	5.027	4.889	73,727
S. Francisco.	164.681	142,753	202:155	135.847	133:721\$	105:750\$	151:949\$	70:563\$	8.357	5.480	6.597	3.714
Itajahy	216,150	97.500	77,881	126.020	175:512\$	74:100\$	43:910\$	65:753\$	10 970	3.839	2.195	3.460
Florianopolis		37.500	5.771	10.042		28:500\$	8:291®	16:830\$		1.476	415	988
Ports of Rio Grande do Sul	3.6.440	617.672	449.996	1,810.164	282:7493	713:092\$	503:631\$	2.455:6348	279.71	36.948	25.183	128.713

WOOL

The manufacture of woollen goods is the source of vast wealth and an incentive to the governments of wool-producing countries to improve their breeds of sheep by all possible means.

Brazil has not overlooked the importance of the wool problem, and is putting forth many efforts to increase the production and improve the quality.

Our wool industry is in an incipient stage, it is true, but we already have a number of good factories, among which we shall mention those of Rio Grande and São Paulo.

Thanks to the development of sheep-raising, favored by the Government in the reduction of duties, the rising industry exhibits fair results, as may be seen from the following figures from the State of Rio Grande do Sul:

WOOL — EXPORTS

		KILOS	SO		,	ALUE F. O.	VALUE F. O. B. MIL REIS			POUNDS	POUNDS STERLING	
	1914	1915	1916	1917	1914	1915	1916	1917	1914	1915	1916	1917
Fortaleza		1	237				2003				10	i
Recife	-	105	4.787	10.583	1	4728	4:805\$	45:064\$		हो।	240	2.213
Rio de Janeiro	089	11.306	5.080		\$1F9	16:0118	£0000		40	658 658	707	
Santos	ı	455	1.012	2.500		\$0.09	3:52	12:805\$	1	31	191	67.4
Rio Grande	1.037.303	277,962	1	1	939:747\$	468:916\$,		58.734	24.296		ı
Pelotas	14.953	89,854	49.912	67.414	13:562\$	157:579\$	114:659\$	231:445\$	847	8.164	5.733	12.181
Porto Alegre	ł		239	l	ļ	1	526\$		1	1	95	J
S. Victoria do Palmar	15.175	22.396	4.100	1	13:791\$	40:362\$	7:245%		862	2.122	362	
Jaguarão		3.000	1	9.095	1	5:487\$		35:525\$	1	587	1	1.869
Sant'Anna do Livra- mento	İ	459, 154	569.535		-	839:798\$	2.562:907\$		l	43.512	128.145	ı
Quarahy	1	234.631	198,353		-	429:140\$	892:58(\$.	22.235	44.629	
Uruguayana		358.173	400.200	ı	Į	654:842\$	1.695:588		1	33,930	84.799	
Itaqui	41.900	121.628	76.755	137	38:003\$	218:057\$	233:161\$	5168	2.575	11.545	11.658	51
S. Borja	1	79.004	7.108			144:498	31:986\$	1	ļ	7.487	1.599	1
Porto Murtinho	401	627	1	4:9	364\$	7948	l	1:611\$	ឡ	7	1	52
Corumbá	0.2	606	199	879	63\$	1:232\$	945\$	3:083\$	77	64	5	162
,												

GOLD

Gold has been found in all the States of Brazil, either in alluvial deposits, or veins. But, as it has been observed by Baron von Eschwegge, all the important deposits are grouped about the three great southern mountain ranges, which so to speak, form the skeleton of the country. The Mantiqueira range, which starts in São Paulo, and from which springs the Espinhaço chain, in the South and North of the State of Minas, enters Bahia and ends in Pernambuco. In the second place, the great ridge, which divides the waters of the São Francisco from those of the River Plate, serves as dividing line between Minas and Goyaz, through Piauhy and terminates in Ceará. The third extends along the left shore of the Araguaya and Paraguay; to this range belongs the chain of Parecis, in Matto Grosso.

The mines which have been exploited most are those of the Espinhaço chain and are grouped about a line, running from Barbacena, in Minas, to the town of Jacobina, in Bahia, and covering a length of 1.200 kilometers.

The gold beds hitherto exploited in Minas may be grouped about the three following types: veins of pyrites, veins of quartz, and beds of auriferous itabirite.

There are at present very few mines in regular exploitation. But in the XVIII century and in the beginning of the last, the mines above referred to yielded fabulous returns to the crown of Portugal and to private parties.

We give below a list of the companies which have undertaken the exploitation of mines in the State of Minas, which is held to be the richest:

Saint John d'El-Rey Mining Company, Ltd.; Ouro Preto Gold Mining Company, Ltd.; S. Bento Gold Estates, Ltd.; Lathom Gold Mining, Rotulo Ltd.; Penna Irmãos & Dias, Companhia Aurifera de Minas Geraes; Ouro Preto Gold Mines of Brazil, Ltd.; Santa Barbara Gold Mining Company, Ltd.; Empreza de Mineração de Caeté: East d'El-Rey Mining Company, Ltd.; Companhia Brasileira de Salitraes, Terras e Construções.

Besides the companies carrying on regular exploitation, there are numerous individuals, called «faiscadores», or fossickers, especially in the North of Brazil, who occupy themselves with gold mining. They sell the gold in dust or nuggets to the local gold-smiths and merchants, by whom it is made up into jewelery, or shipped to Rio de Janeiro.

GOLD—EXPORTS

		GRAMMES	MES			VALUE F. O.	VALUE F. O. B. MIL RÉIS			POUNDS	STERLING	
1	1914	1915	1916	1917	1914	1915	1916	1917	1914	1915	1916	1917
S. Luiz do Ma- rauhão	9.068	35.200	5.300		15:535\$	74:998\$	11:851\$	1	958	9.886	993	
Rio de Janei-	4,041.756	7	4,372.593	4,474,770	7.196:381\$	9.487:881\$.329.328 4.372.303 4.474.770 7.196381\$ 9.487381\$ 9.580.521\$ 8.9338163 444.216 491.600	8,933:816\$	444.216	491.600	493.810	473.000



TIMBER

Brazil is without any possible contestation the country which possesses the most precious timber for general construction and ship-building, and for the manufacture of maniture and other articles. A country of varied and luxuriant flora in diverse climates and zones of vegetation, Brazil possesses a multitude of timbers, which are highly appreciated for their resistance, beauty and durability.

The importance of this timber does not consist only in the hardness of the wood; in many species the grain is so beautiful and wavy that it appears engraved by skilful artists. Other species emit an odor of such sweetness and intensity that they seem to be the reservoirs of pure essences prepared by famous chemists.

All the States possess timber of superior quality, but some of them are uncommonly rich in valuable species and varieties, as Amazonas, Pará, Matto Grosso, Bahia, Espirito Santo, Rio de Janeiro, Minas Geraes and Paraná.

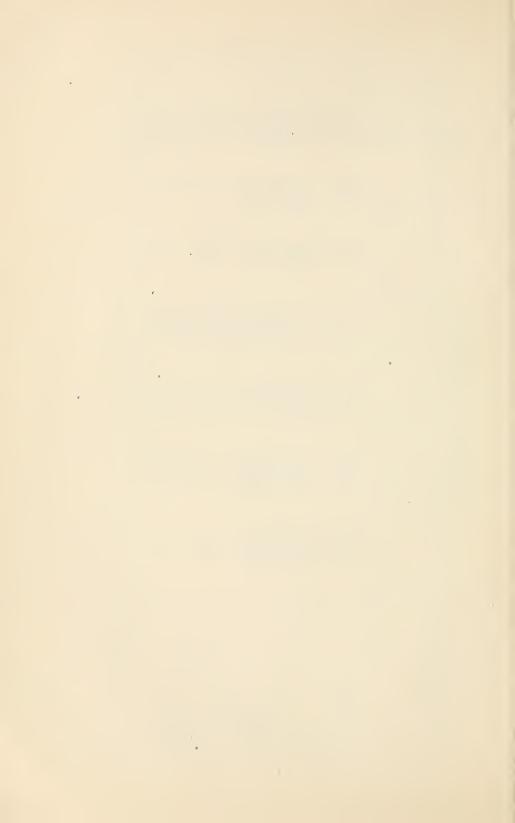
In proof of the wealth of the forests of Brazil it is sufficient to mention the S. Louis Exhibition, in North America, where the samples of timber excited the enthusiasm of the American people, and where the Press declared Brazil the richest forest country in the world.

The timber trade, however, has not yet attained to a high degree of development; owing to difficulties of transportation, costly rates and a lack of good ports for quick loading and shipping. In this brief notice we shall not omit to mention some of the most appreciated species of the timber of Brazil.

Angico, Cedro, Canella, Copahyba, Jequitibá, Jacarandá, Nogueira, Pau-rosado, Peroba, Pinheiro, Quebracho and Sapucaia.

TIMBER — EXPORTS

		VALUE R. O. B.	B. MIL REIS			POUNDS	POUNDS STERLING	
	1914	1915	1916	1917	1914	1915	1916	1917
Belem do Pará. Ilha do Cajueiro Fortaleza Natal Natal Recifc Bahia Nitoria Rio de Janeiro Santos. Santos. Santos. Sartos. Sartos. Sartos do Iguassú. Foz do Iguassú. Prancisco Rio Grande. Pelotas. Porto Alegre. Safla Victoria do Palmar. Jaguarão. Uruguayana	15:055 505 505 2:0005 113:1015 257:0925 149:9065 5605 5605 100:9035 115:2515 11:0365 12:5265	2.2985 2.2985 2.2985 2.2005 2.71.058 2.71.058 48:2468 31:2868 6:8178 6:8178 11:1128 11:1128 9008	263:3000\$ 2:0008 2:0008 3:0446\$ 2:779\$ 13:006\$ 118:006\$ 109:495\$ 109:495\$ 101:42\$ 161:74\$ 161:74\$ 118:008 118:008 118:008 118:008 118:018 118:018 118:018	492:254\$	943 1125 125 125 17.943 9.369 9.369 9.170 6.306 6.306	3.078 155 165 163 163 163 163 163 163 163 163 163 163	13, 165 1.522 1.622 1.622 1.632 6.80 1.612 5.125 5.125 837 837 806 1.20 1.018 9.075 6.818 1.376	25.905 11.021 10.15.927 10.15.927 10.15.927 10.15.929 10.15.
Corumbá		!	1:800\$		1	1	06	ı



IRON

In colonial times, the Government of Portugal established two iron factories in Brazil, one at Ipanema (S. Paulo) and the other at Morro do Pillar (Minas), but without sucess, owing to bad management.

The most important factories in existence at the present day are: the Usina Esperança and the Usina Wigg.

The iron ores known in Brazil are the oxides. The carbonate of iron occurs rarely in some gold mines, together with the carbonate of lime. In the Morro Velho Gold mines, for instance, we find carbonate of lime and carbonate of iron.

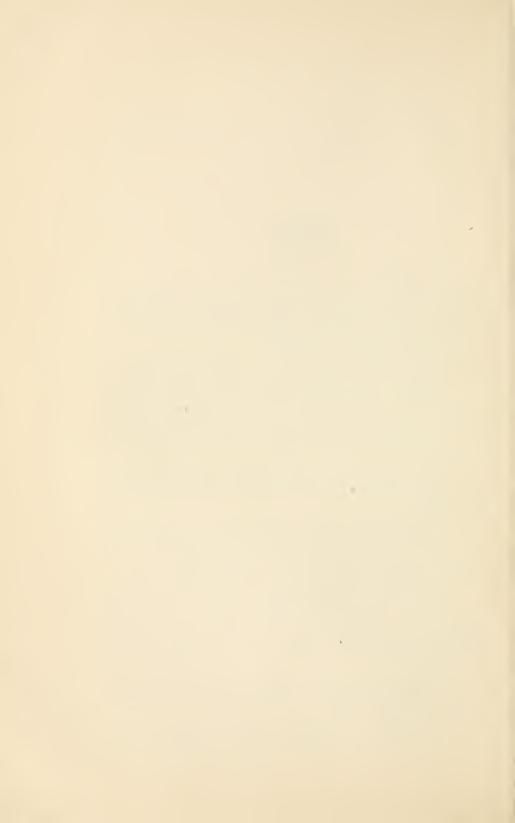
Iron is abundant in S. Paulo, Santa Catharina, Espirito Santo, Bahia, Matto Grosso, Goyaz, Minas and Rio de Janeiro.

In the State of Minas in often happens that the ores do not form layers, but veritable mountains, which are in general sensibly pure. These ores consist of hematite which is expressed wehn pure by the formula F e 2303.

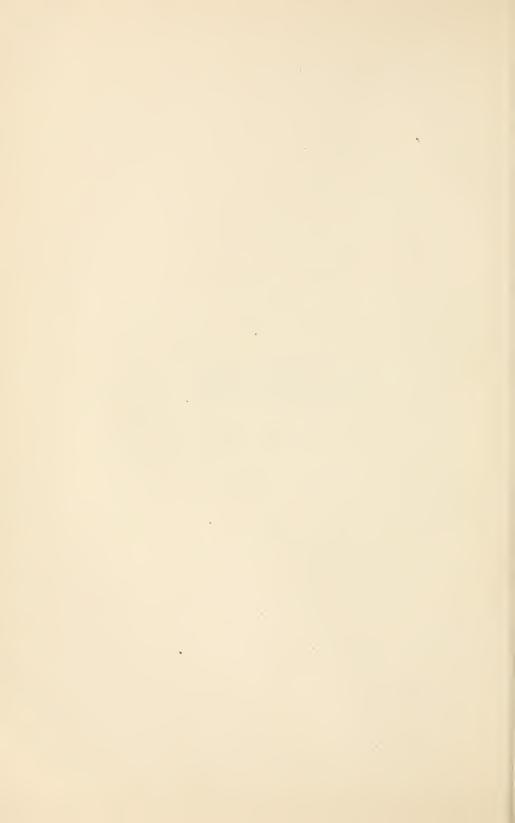
The best known magnetite mines are in the State of S. Paulo, at Ipanema, in the neighbourhood of the works of the same name, which possess two furnaces. The ore extracted in the vicinity of the furnaces contains $67^{-0}/_{0}$ iron.

In Minas Gereas, in the vicinity of Sabará, there are enormous layers of hematite, capable of supplying the iron industry for many years.

Near Hargreaves Station, on the Ouro Preto Railway, the hills are covered by large masses of hematite.







THE INDUSTRIES

The industrial movement in Brazil has increased sensibly in the course of the last 20 years, especially in the Federal District and in São Paulo, Rio de Janeiro, Rio Grande do Sul, Pernambuco, Paraná, Sergipe, Bahia and Ceará.

It is clear that, in a short notice like this, we can merely mention the most important and financially strongest of our industries, such as:

Cotton, embracing calico and prints; wool, including fine stuffs; cigars, cigarrettes; beer, wine and other fermented beverages; rum and other forms of alcohol; maize and manioc farinas; shoes, carriages and wagons, diamont lapidation, articles of gold and silver, matches, roping, cheese, butter, jerked beef, chilled and freezed meat, preserves, chocolate, oils, vinegar and liquors, tea, mate, ground coffee, salt fish, gum elastic, hats, crockery and earthen ware, varnished leather and morrocco, glass, optical and nautical instruments, etc.

Cattle raising is carried on a large scale, especially in Rio Grande do Sul, Minas, Goyaz, Matto Grosso and Ceará.

The Federal Distret is the most important industrial center of Brazil.

GENERAL TABLE OF THE STATISTICS

of the industries in Brazil

STATES	NUMBER OF LARGE ESTABLISHMENTS	CAPITAL IN	PRODUTION IN MIL REIS	NUMBER OF WORKMEN
Alagôas	47	10.937:887\$000	10.496:310\$008	3.855
Amazonas	98	6.484:000\$000	14.962:000\$000	1.267
Bahia	88	28.377:260\$000	25.990:962\$000	10.009
Ceará	24	$6.484 \cdot 000\$000$	3.422:500\$000	11.353
Districto Federal	895	188.442:259\$000	255.164:542\$600	40.331
Espirito Santo	8	1.251:000\$000	1.209:500\$000	400
Goyaz	135	1.617:000\$000	2.471:000\$000	868
Maranhão	19	13.540:250\$000	7.640:332\$000	4.595
Matto Grosso	16	13.650:000\$000	4.450:000\$000	3.870
Pará	55	11.503:000\$000	18.223:000\$000	2.544
Parahyba do Norte	43	4.990;500\$000	4.394:912\$000	1.465
Paraná	302	21.152:000\$000	33.940:294\$000	4.824
Minas Geraes	552	29.307:372\$000	36.190:694\$000	10.091
Pernambuco	126	60.229:000\$000	57.676:293\$000	12.388
Piaulty	5	1.310:878\$000	1.192:975\$000	355
Rio Grande do Norte	43	6.921:000\$000	3.094:485\$000	2.063
Rio Grande do Sul	328	47.448:9198000	102.678:820\$000	15.907
Rio de Janeiro	248	83.830:457\$000	59.540:868\$000	13.994
Santa Catharina	174	9.689:000\$000	14.169:410\$000	2.106
São Paulo	384	166.057:191\$000	140.078;0218000	33.252
Sergipe	103	14 172:858\$000	14.811:105\$000	3.027
	3.664	727.719:771\$000	811.798:008\$000	168.764

TRANSPORTATION

It were difficult to mention a nation putting forth more energies and undergoing greater sacrifices than Brazil has done in the last years, in connection withe the improvement of communications, whether by land, by sea or by river.

RAILWAYS

On the 31 st. of December 1917, the length of railways in traffic was 27.608 kilometers and 632 meters.

There were also at that time 3.577 kilometers and 314 meters of lines in construction, and 7.559 kilometers and 299 meters, the definite studies of which had been approved.

The figures for the same date, 1913, were: total length in traffic, 24.613 kilometers and 989 meters; in construction, 5.527 kilometers and 258 meters; studies approved, 7.438 kilometers and 397 meters.

The following table shows the progressive construction of railways in Brazil since 1854, it being worthy of remark that this progress has increased since 1907.

TABLE

YEAR	KILOMETERS	YEAR	. KILOMETERS
1854	14 500	1869	736,840
1855	14.500	1870	744.922
1856	16.190	1871	868.779
1857	16.190	1872	932,174
1858	109.376	1873	1.128.884
1859	109.376	1874	1.283.877
1860	222.696	1875	1.800.895
1861	251.063	1876	2.122.407

NAVIGATION

The maritime and river transportation in Brazil including the coasting navigation, which, under the Constitution, is restricted to native ships, covers 27.566 kilometers of river lines. The present extent of frankly navigable rivers is 50.000 kilometers, and there are 22.434 kilometers of rivers still available for steam navigation.

The navigation enterprises which have contracts with the Federal Government are divided in three classes:

- a) Subsidized companies or enterprises enjoying the same favors granted to the Lloyd Brasileiro; there are 12 of them, 5 being maritime and 7 fluvial;
- b) Companies which enjoy the same favors with the exception of the subsidy, there are 8, of which 5 are maritime and 3 fluvial.
- c) Companies whose ships enjoy only the advantages and privileges of mail steamers; these are 10, of which 6 are maritime and 4 fluvial.

The fiscalization of all these companies is in charge of the General Superintendence of Navigation.

See Table annexed:

MARITIME MOVEMENT

SUMMARY OF MOVEMENT OF SALLING VESSELS AND STEAMERS, LONG-COURSE AND COASTING, IN BRAZILIAN PORTS, DURING THE LAST 7 YEARS

	TONS	16 460,101 18,858,678 14,865 695 10,499,652 8,601,828 5,490,876	TONS	9,960,240 10,345,624 8,935,800 8,972,148 8,635,101 9,006,675	TONS	26.420.341 29.204.302 23.804.495 19.47.800 17.236.929 14.497.551
	FOREIGN VESSELS	6.235 6.895 5.225 7.41 3.659 2.741	BRAZILIAN VESSELS	19.956 20.970 17.871 18.426 18.250 18.972	GRAND TOTAL	25.191 27.865 23.096 22.504 21.909 21.713
SAILINGS	YEAR	1912 1913 1914 1915 1916 1916	YEAR	1912 1913 1914 1916 1916	YEAR	1912 1913 1914 1915 1916 1917
	TONS	16.538.048 18.826.291 14.917.739 10.494.258 8.605.086 5.521.561	TONS	9.967.836 10.343.968 8.928.319 9.000 513 8.622.774 8.959.259	TONS	26.505.884 29.170.259 23.846.058 19.494.771 14.227.860 17.480.820
ES	FOREIGN VESSELS	6.272 6.877 5.210 4.095 2.157	BRAZILIAN VESSELS	19.961 20.905 17.803 18.504 18.172 18.959	CRAND TOTAL	26.233 27.782 23.073 22.599 21.529 21.716
ENTRIES	YEAR	1912 1918 1914 1915 1916	YEAR	1912 1913 1916 1916 1917	YEAR	1912 1914 1915 1916 1917

THE MINING INDUSTRIES IN GENERAL

The following, report, by Dr. Orville Derby, who is the Director of the Geological and Mineralogical Service of this Ministry, will give a fair idea of the present condition of the mining industries in Brazil.

Dr. Affonso Costa, Director of the Bureau of Information.

Dear Sir:

Replying to your communication n. 384, of December 8 th., requesting an account of the present condition of the mining industry in Brazil, I beg to inform you as follws:

A—Gold mining—At Sabará and Ouro Preto, in the central part of Minas Geraes, there are two large mining enterprises and a number of smaller ones, to which we are indebted for nearly all the gold exported from Brazil, which amounts to about 4.000 contos de réis (gold)..... (2.222.000 dollars). In this and several other districts of the same and other States, a certain amount of gold is produced owing to the intermittent labors of isolated miners, called faiscadores, operating in alluvial deposits, but as this gold enters the local circulation, its value, which certainly cannot be very great, escapes computation.

B — Diamond mining — Diamond mining has been on the decline since 1872, when the yield of South Africa became so great as to supplant it, but it is still carried on in the districts of Diamantina and Bagagem, in the State of Minas Geraes and in those of the Chapada, Diamantina and Cannavieiras, in the State of Bahia. The official value of diamonds exported through the custom houses of Rio de Janeiro and Bahia, in 1912, was about 250 contos de réis (138.000 dollars) but there is no doubt that the total value of the production was far above this figure.

- C—Carbonate mining—This is limited to the diamond region of the central part of Bahia. The official value of exportation through the custom house of Bahia, in 1912, was a little over 86 contos de réis in gold...... (47.700 dollars).
- D— Manganese mining— There are several mines in active exploitation in the municipalities of Ouro Preto and Queluz, in the State of Minas Geraes. These mines have yielded during several years past, an annual mean production of about 200.000 tons. Another centre of production is the municipality of Nazareth, in the State of Bahia; but the work is stopped at present. During the period in which these mines were worked, the yield was several score of thousands of tons per annum.
- E—Iron mining—The enormous beds of first class iron, which exist in the central part of Minas Geraes, in the districts of Ouro Preto, Sabará, Itabira do Matto Dentro and others, have given rise to a number of gigantic projects of mining on a grand scale, both for the production of iron in the country and for the exportation of the ore, but up to the present, none of them have begun operations, and actual mining is confined to the Esperança Works, near the city of Itabira do Campo, which produces a few score of tons per day.
- F—Copper mining—Beds of copper are known in the States of Rio Grande do Sul, Bahia and Maranhão, but only in the first of these States have attempts been made to exploit them on a small scale. It appears that even these have been discontinued, as no shipping is recorded for 1912 through the port of Rio Grande.
- G Monazitic Sand mining The extraction of monazitic sand is at present confined to the original beds of

maritime origin lying along the coast from the State of of Bahia to the north of Rio de Janeiro. The mining of river beds at several places in the interior has been discontinued for some years. The exportation in 1912 through the ports of Bahia, Victoria and Rio de Janeiro, was 3.398 tans, at the official value of 965 contos and a half (gold) (536.350 dollars).

- H—Coal mining—This is confined to one single mine, situated in the municiplity of São Jeronymo, in the State of Rio Rio Grande do Sul, which, for a number of years, has yielded an annual production of several thousand tons.
- I Mining of Precious Stones Yellow topazes are mined in the district of Ouro Preto, in the State of Minas Geraes; white, green, and blue topazes, aqua marines and turnalines, in the district of Theophilo Ottoni and neighbouring ones, in the eastern part of the State. The official exportation for 1912 was estimated at 133 contos 956 mil réis in gold (74.420 dollars).
- J Agate mining This is carried on at several places in the State of Rio Grande do Sul. The exportation, in 1914, was 103 tons, valued at 82 contos 198 mil réis about (45.660 dollars).
- K—Mining of Rock Crystal—This is confined to the district of the Serra dos Cristaes, in the State of Goyaz. The exportation, in 1912, was 45 tons, estimated at 56 contos 368 mil reis in gold (31.315 dollars).

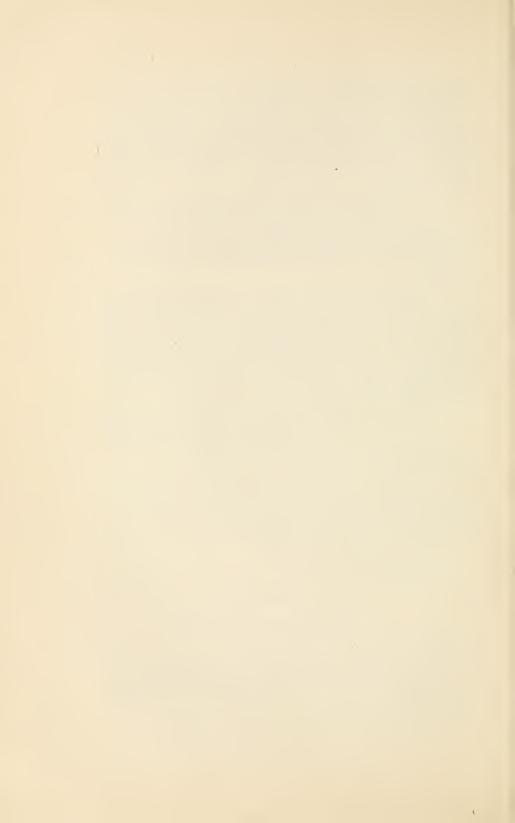
Respectfully

Orville Derby,

Director of the Geological Service.

Ministry of Agriculture, Industry and Commerce.

The ownership of Mines is regulated by the new Mining Law, Decree n. 2.933, of January 6 th., 1915, now being distributed by this Bureau.



CATTLE - RAISING

The pecuary industry exists in every one of the Brazilian States, but is particularly flourishing in Rio Grande do Sul, Goyaz, Minas, S. Paulo and Paraná.

The native stock, that is, the breeds which have resulted from animals brought over from the time of the first settlement down to recent years, are being greatly improved by mixing with select foreign breeds imported for the purpose. The result has shown itself in the geater size and product yielding capacity of the animals.

Difficulties arising from the susceptibility of imported stock to diseases from which the native animals are exempt are being rapidly overcome by the labors of our Veterinary Service.

The present condition of the pecuary industry is shown in the following table of statistics, organized by this Ministry.

CATTLE - STATISTICS

			NU	NUMBER OF HEAD			
STATES	BOVINES	HORSES	MULES AND DONKEYS	GOATS	SHEEP	HOGS	TOTAL.S
Districto Federal	16.000	10.000	13.000	5.000	4.000	16.000	64.000
Alagoas.	260.000	82.000	000.12	319.000	207.000	93,000	315,000
Amazonas	2,683,000	825.000	572,000	3.005.000	2.224.000	2.410.000	11.719.000
Ceará	1.162.000	421.000	281.000	1.495.000	1.304.000	286.000	5.149.000 879.000
Espirito Santo	1.873.000	316.000	84.000	000.06	95.000	710.000	3.168.000
Maranhão	640.000	132,000	34.000	190.000	92.000	245.000	1.333,000 3.050.000
Matto Grosso	6 861.000	1.744.000	779.000	517.000	447.000	6.716.000	17.064.000
Pará	541.000	34.000	000.7	13.000	27.000	104.000	726.000 2 483 000
Parallyba	718.000	230,000	101.000	35.000	70.000	000 : 669	1.675.000
Pernambuco.	871.000	274.000	106 000	1.692.000	464.000	293.000	3,700.000
Flauhy	519,000	156.000	101.000	124 000	88.000	738.000	1.726,000
Rio Grande do Norte.	573.000	139.000	105.000	418.000	357.000	99.000	1.655.600
Rio Grande do Sul	7.249.000	122.090	46,000	13.000	35.000	360,000	1.104.000
S. Paulo	1.322.000	509.000	417.000	297.000	282.000	1.934.000	4.761.000
Sergipe.	269.000	83.000	35.000	202.000	149,000	76,000	814.000 24.000
territorio do Acre	000.	1.000	000.	1,000	000.0	000	
Totals	30.705.000	7.289,000	3,208,000	10.049.000	10.633.000	18.399.000	80.503.000

FROZEN AND CHILLED MEAT INDUSTRY

A new industry now introduced in the exports statistics is that of the frozen and chilled meat, which owns its very prodigious development to the European war.

The first consignment was shipped to England in December, 1914, in a small quantity of about 1500 kilos.

In order to develop this beginning industry, four principal Packing-houses have benn lately established: two in the State of S. Paulo; one at Mendes in the State of Rio de Janeiro, and another at Rio de Janeiro.

S. Paulo is doubtless the best fitted of the Brazilian States for the development of the frozen-meat-industry. The chilling and freezing plant at Osasco is one of the most modern type equipped with the most perfect American machinery, and has a capacitay of 1000 bovine, 2000 sheep, and 4000 swine head per day. The Osasco Packing-house belongs to the Continental Products Co.» a joint interest Wilson & Co. firm with the «Brazil Railway».

Another Packing-house in the same State at Barretos is the «Companhia Frigorifica e Pastoril» erected in 1916, equipped also with modern machinery; it belongs to a Brazilian firm conducted by the Conselheiro Prado and his of the associates.

At Mendes in the State of Rio de Janeiro has been erected a modern plant capitalised and conducted by Vestey Brothers, of London and Chicago.

At Rio de Janeiro was lately erected a Packing-house the «Armazens Frigorificos do Caes do Porto» that does

not slaughter but only chills and freezes the cattle slaughtered in the «Matadouro Santa Cruz» a slaughterhouse near Rio de Janeiro. The plant is the property of the Port Company and Brazil Railway.

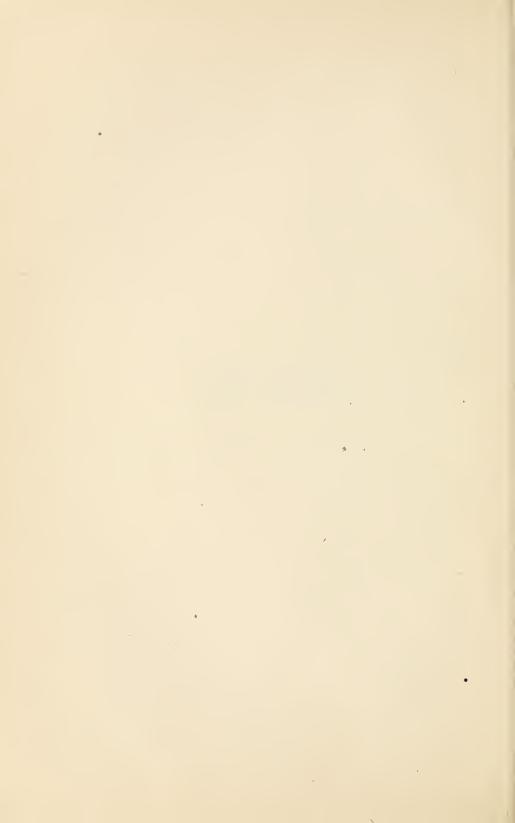
In the State of Rio Grande do Sul there are now three fronzen-meat-packing-house-plants in course of construction, and in a short time the greatest industry of the xarque (jerked beef) which is confined to the home market shall be replaced by that of the frozen meat consumption of which is world-wide.

FROZEN AND CHILLED MEAT EXPORTS

	1917	322,190 1.423,868 3,170,150
POUNDS STERLING	1916	1.423.868
POUNDS	1915	323.190
	1914	69
	1917	60.232:840\$
VALUE F. O. B. MIL REIS	1916	1:2008 6.121.6008 28.192.6008 60.232:8408
VALUE F. O.	1915	6.121.600\$
	1914	1:200\$
	1917	66,452.000
KILOS	1916	33.661.000 66.452.000
ΙΝ	1915	8.514.000
	1914	1.500







IMMIGRATION

Immigration has not been neglected. On the contrary, it is considered by the Government to be one of the most efficient factors of our progress, for we have soil enough to accommodate yet many millions of people without overcrowding.

The Government has been solicitous, in accordance with the law in force, to place all immigrants, landing on our shores and soliciting official patronage, in the several colonial nuclei already founded, in harmony with the wishes and capacities of each, facilitating the acquisition by them of good farms, in excellent conditions of salubrity. To this end the Federal Government, in conjunction with those of the States, employs efficient means to facilitate communication between the nuclei and centers of population and trade.

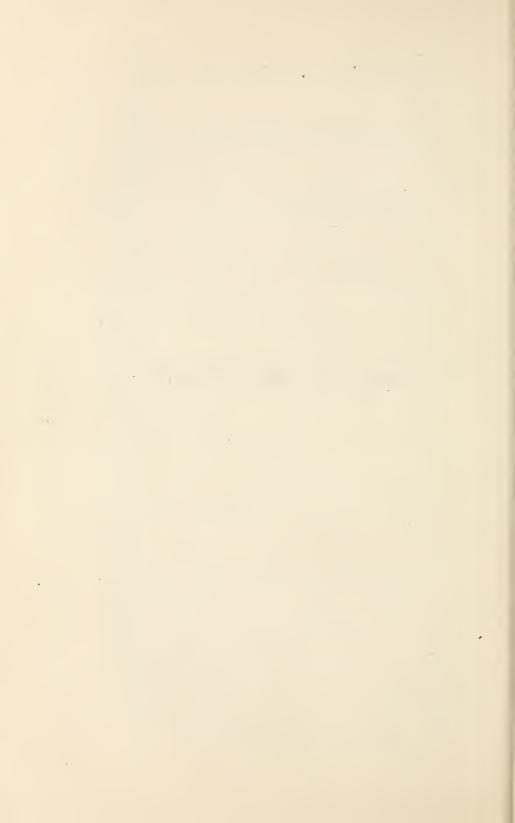
Immigrants arrived at the different Brazilian ports in 1917 *

STATS	PORTS	NUMREE OF IMMIGRANTS
Districto Federal	Río de Janeiro	6.264 24.448 138 34 308

Comparative Table of the Nationalities of Immigrants, from 1910 to 1917

1917	6.817	11,113	9.478	644	. 259	201	18	273	243	3.899	2.247	31.192
1916	11.981	10.306	5.340	516	603	334	155	292	244	165	4.073	34.003
1915	15.118	5.895	5.779	640	514	169	104	410	311	<u></u> 29	3.201	32.206
1914	27.935	18.945	15.542	2.958	3,456	2.811	971	969	462	3.675	5.121	82.572
1913	76.701	41.064	30.886	8.251	10.886	8.004	2.255	1.532	825	7.122	5.157	192.683
1912	76.580	35,492	31.785	9.193	7.303	5.733	3.045	1.513	1.077	2.909	5.603	180.182
1911	47.493	27.141	99,914	14.013	6.319	4.951	3,352	1.397	1.157	58	206.7	135.967
1910	30.857	20.843	14.163	2,462	5.257	3.902	2.636	1.134	1.087	8F6	5.273	88.564
NATIONALITIES	Portuguese	Spaniards	Italians	Russians	Turks & Arabs	Germans	Austrians	French	English	Јарапеѕе	Miscellaneous	

NOTES ON THE CLIMATE



NOTES ON THE CLIMATE

With regard to its climate, Brazil may be divided in three zones.

The first zone occupies the region lying in the vicinity of the Equator, and extends to the tenth degree of lat. south.

The second zone reaches from the tenth degree of lat. south to the tropic of Capricorn.

The third zone lies between the tropic of Capricorn and parallel 33°,45", which is the southern limit of the Republic.

The characters of each of these zones are as follows:

First zone — Mean temp. 26 to 27 degrees centigrade. The climate of the upper Amazon is warm and damp, the mercury oscillating between close extremes, except during what is called the *friagem*, or «cold spells». The middle part of the day is undeniably hot, but the mornings are cool, and the afternoons very bearable. Frequent showers cool and purify the atmosphere.

Second zone — Mean temp., 23 to 26 degrees centigrade, in the low lands, and 18 to 21 degrees in the more elevated parts.

Third zone — Mean temp., 16 to 19 degrees centigrade. Minimum tem. at Florianopolis, in the State of Santa Catharina 8, 2 degrees centigrade below zero.

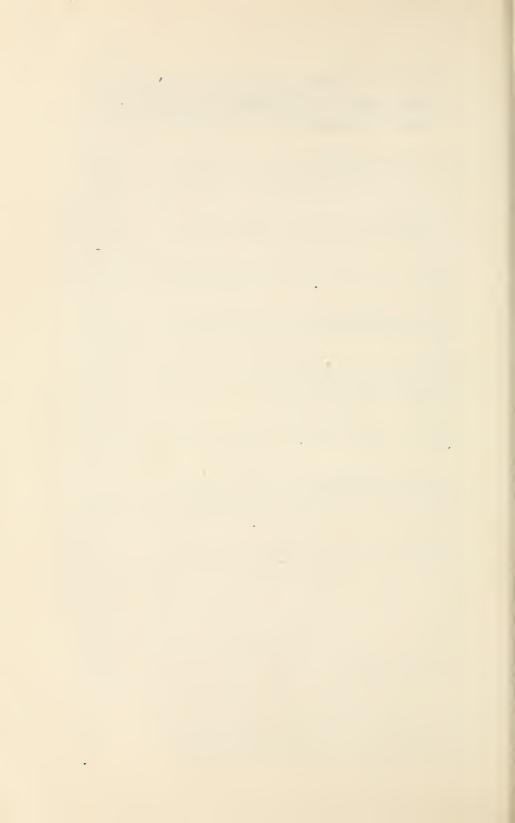
The following is a table of the coefficients of climate taken in the chief cities of Brazil.

Coefficients of Climate Observed at Various Places in Brazil

VEARS OF	Пимирания 4 частино В части В В Б Б Б Б Б Б Б Б Б Б Б Б Б Б Б Б Б
MITIMETERS VAZAOVE BYIN-	2482 2458 2986 608 608 1266 1380 1708 1708 1708 1708 1708 1708 1708 17
TAJAH XTIUIMUH	8 @ @
OE WATER	12 02 12 12 12 12 13 13 13 1
MIZS. ABSOL.	######################################
MAZ, ABSOL. TEMP.	
PRESSORE AT 00	66 157 1
Adutitla	2.1 1.2 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3
LOXG, FROM	14 16 17 18 18 18 18 18 18 18
.s ,TAJ	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
PLACE	Belém. São Luiz São Luiz Fortaleza. Mandos. Quixeramobim. Natal. Parahyba. Recife. Joazeiro Aracaju. Bahia. Ilhéos. Cuyaba. Cuyaba. Cuyaba. Cuyaba. Cuyaba. Cuyaba. São João d'El-Rei. Biamantina. Nerraba. São João d'El-Rei. Ribeirão Preto. Barbacena. Nova Friburgo Juiz de Fóra. Nova Friburgo Juiz de Fóra. São Paulo. Santos. Campinas. São Paulo. Santos. Cuirtyba. Blumenan. Florianopolis. Pelotas.

Coefficients of mortality registered in various Brazilian cities, compared with those of other cities throughout the world.

São Luiz de Potosi	36.6
Cairo	34.6
Athens	30.9
Petrograd	30.5
Alexandria	30.0
Moscow	29.0
Trieste	28.1
Madrid	28.0
Naples	25.2
Porto Alegre (Brasil)	24.3
Breslau	23.5
Lisbon	23. I
Genova	21.5
Marseilles	21.4
Havana	21.2
Dublin	21.2
Milan	21.1
Rome	20.8
São Paulo (Brazil)	20.8
Rio de Janeiro (Brazil)	20.7
Turin	21.I
Vienna	19.3
Budapest	19.2
Tokio	18.9
Boston	18.5
New York	18.3
Baliia (Brazil)	18.1
Paris	17.6
Berlin	17.1
London	15.6
Curityba (Brazil)	14.9







BRAZILIAN MONEY

The basis of the Brazilian monetary system is an imaginary unit, the real (pron. rayahl, plural réis, pron. raees) worth, at par exchange, 27 tousandths of a penny. For pratical purposes, however, the unit of account is the mil réis, that is one thousand réis, worth, at par exchange, 27 pence, or, in American currency, 54.6 cents. Fractions of one mil réis are expressed in réis—never in the terms of a fraction. Thus, 20 réis; 50 réis, 500 réis. Values of one or more mil réis are expressed by the words mil réis, preceded by the proper coefficient. But the word um (one), in the case of um mil réis, is commonly understood. Thus we say um mil réis, or simply mil réis.

One thousand mil réis is called a *conto de réis*, or simply a *conto*. It contains one million réis, and is worth, at par exchange, £112 10 sh., or \$546.00. The word *conto* is always preceded by the proper numeral adjective.

The writing of Brazilian values is a very simple matter. We have merely to bear in mind that we are dealing with decimal numbers, the base being always ten. There are three signs to denote the places of the figures. They are: the mil réis sign (\$\$), the conto sign (:) and the thousand conto sign (:).

Values under one mil réis are inscribed to the right of the (\$) sign. Thus, \$522 (five hundred and twenty-two réis) Should there be no tens or hundreds, their places are occupied by naughts. Ex. \$005 (five réis); \$204 réis (two hundred and four réis). Values of one mil réis and over are

inscribed to the left of the (\$) sign, up to 999\$ (nine hundred and ninety nine mil réis).

Any of number of contos come between of the (.) sign and the (\$) sign up to 999:000\$000 (nine hundred and ninety nine contos).

Thousands of contos are inscribed thus: 999.000:000\$ (nine hundred and ninety nine thousand contos).

In case there are no réis the three reis places are occupied by naughts; but these are often understood, the places being left blank.

The following is an example of a value in the writing of which all the places are taken:

Rs. 645.721:982\$321 (six hundred and forty five thousand seven hundred and twenty-one contos nine hundred and eighty-two mil three hundred and twenty-one reis). The abreviation Rs. is placed on the left of the value, but in informal expressions, it is frequently omitted.

The Brazilian coinage embraces the following denominations:

Gold — 20\$, 10\$ (not in circulation);

Silver — 2\$, 1\$, \$500;

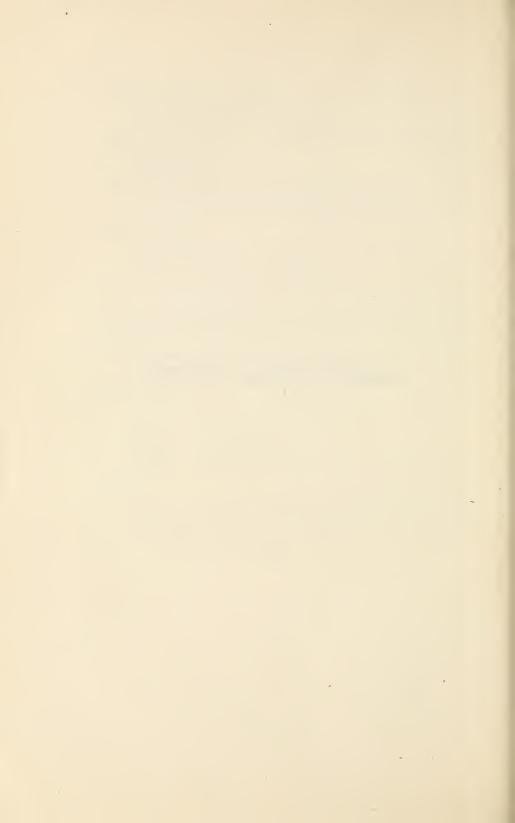
Nickel — \$400, \$200, \$100;

Copper — \$040, \$020, (little used except in the interior).

Paper—1:000\$, 500\$, 200\$, 100\$, 50\$, 20\$, 10\$, 5\$, 2\$, 1\$.

The rate of exchange is expressed by the number of pence to which 1\$ is equivalent.





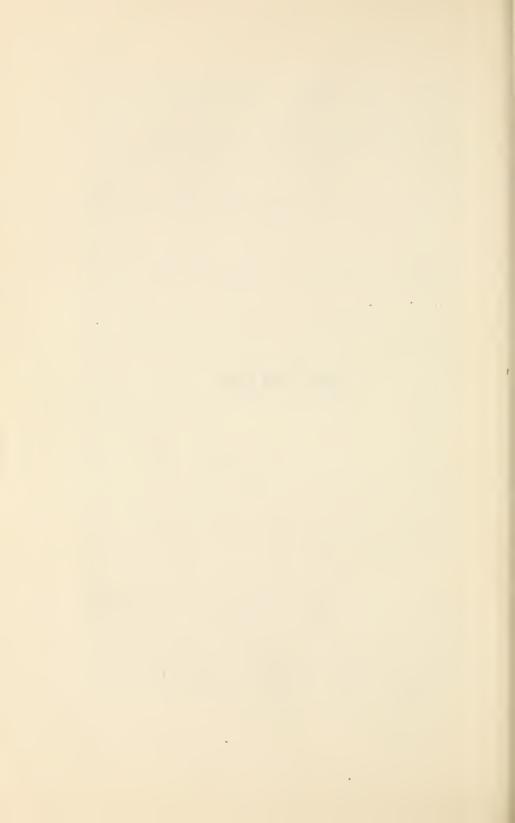
CONSTITUTIONAL RIGHTS

Foreigners in Brazil enjoy all civil rights in common with Brazilians. Among these rights may be mentioned the following:

No person shall be compelled to do, or not to do, a thing, except as prescribed by law; all are equal before the law; the Republic allows no privilege of birth, and recognizes no titles of nobility; all persons are allowed the free exercise of their religion; but the Republic maintains no religion of State; civil marriage is the only marriage recognized by the Republic; all cemeteries are secular, and controlled by the municipalities; the instruction given in public schools is non-sectarian; no church shall enjoy government subsidy, nor shall the Union Government, or any State Government, form any kind of alliance with any church; the right to assemble without arms shall not be denied to the people, and the police shall not interfere, except for the purpose of maintaining order; the right of petition shall not be denied, and any person is entitled to denounce the abuses of authority and promote the punishment of the guilty; in time of peace, all persons are entitled to enter or leave the country with their property, and no passport shall be required; a person's house is his inviolable asylum, and no one shall enter therein at night without the consent of the dweller, except to succour the the victims of crime or accident, except in the cases and manner prescribed by law; the expression of thought both

orally and through writing or printing, is free, but every person shall be held liable for whatever abuses he may commit; anonymous communication is prohibited; except in case a person is taken in the act of committing a crime, he may not be arrested until after he has been indicted, save in cases determined by law, and in view of warrant issued by a proper authority; no person shall be held in jail without having been indicted, save in cases specified by law, nor taken to jail or detained there, if he shall give proper bond, in cases in which the law permits it; the law allows a full defense to all accused persons; the right of property is maintained in full, except in the case of disappropriations for the public good, when previous indemnity shall be paid; mines belong to the owner of the soil, save such limitations as may be established by law; the secret of correspondence shall not be violated; no penalty shall extend beyond the guilty person; the penalty of the galleys, and judicial banishment are abolished; the death penalty is likewise abolished, save the provisions of military legislation in time of war; the writ of habeas-corpus shall be granted whenever a person shall suffer, or be in imminent danger of suffering violence or constraint, through illegality or abuse of power, privileged courts shall not be allowed, except in cases which, by this nature, fall under special jurisdiction; the free exercise of all moral professions is guaranteed; industrial inventions belong to their authors, who are entitled to take out a patent for them; copyrights and trademarks are likewise the property of their authors, who are entitled to cause them to be duly registered; any person who shall allege religious belief as a reason of exemption from any constitutional duty, and any person who shall accept a foreign title or condecoration, shall lose all his political rights; no tax of any nature whatever shall be collected except by virtue of a law authorizing it; the institution of the jury is maintained; foreigners on being naturalized, are entitled to all political rights, except that they are not eligible to the Presidency of the Republic.





BRAZILIAN STATES

POPULATION	578.4.6 809.886 683.645 441.350 1.179.197 424.308 424.308 1.649.025 746.443 3640.443 3640.443 3640.443 1.669.934 4.08.639 1.689.743 1.689.743 1.689.743 1.689.743 1.689.743 1.689.743 1.689.743 1.689.743 1.600.0.00
SURPACE SQUARE KILOMETERS	1.899.724 4.00.884 4.00.884 4.00.884 6.00.884 77.483 77.48
CAPITAL	Manáos Belón São Juiz Therezina Fortaleza Natal Paralyba Paralyba Recife Macejó Aracajú São Salvador Victoria Nicherov São Paulo Curytiba Curytiba Porta Alegre Bello Horizonte Goyaz Cuyabà
SPATES	Anazonas Pará Maranhão Prauhy Ceará Rio Cenude do Norte Paralyba Peruambuco Alagóas Serpirito Santo Rio de Jameiro Bapirilo Santo Paraná Bapirilo Jederal Territorio do Aore

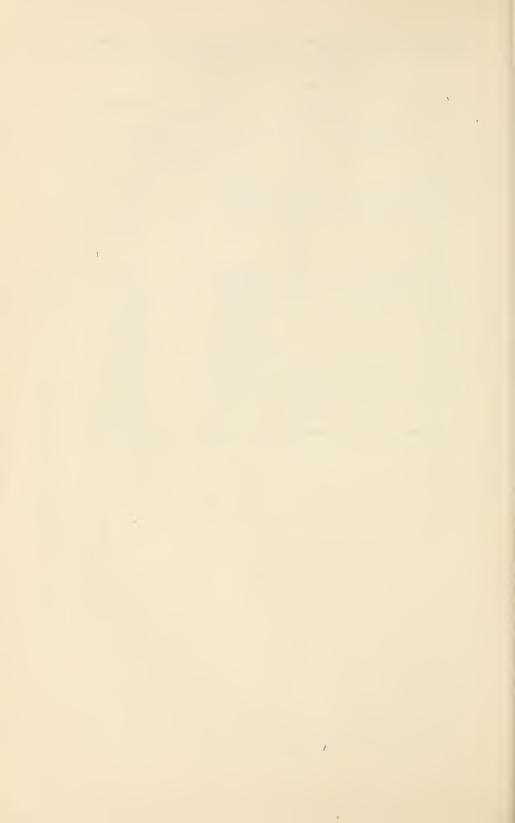
EXPORTS OF THE TEN CHIEF ARTICLES During the year—1918

AVERAGE VA. AVERAGE VA LUE PER UNIT LUE PER UNIT IN RÉIS (PA SHILLINGS PER) OR PENCE	0 4/	0 0/11	9/6	0 1/	0 0/10	4 1/9	/9 - 2	0 1/7	6 0/7	4 1/1
AVERAGE EUE PER NG IN RÉIS (38790	0288	56036c	\$950	8790	18644	58597	18450	8546	18004
VALUE IN LUE PER UNI POUNDS STERLING IN RÉIS (PAR)	662.134	5,459,029	3,997,770	2,158,235	19.040,764	3.991.109	669,131	2,263,269	2.151.144	3.246.395
VALCE IN MILE RÉIS PAPER	12.322:776\$	100,617:741\$	73.727:818\$	39,752:007\$	352,727:250\$. 75,022:9678	12.397:780\$	42.982:284\$	89,750;120\$	60.755:1998
QUANTITY	3.248,152	115.648.528	92.661.690	41.865.472	453,415,928	45.586.568	2,215,001	29.754.535	72.780.812	60.508.678
CNIT	Kilos		*	* .	•				4	
ARTICLES	Cotton	Sugar	Rubber	Cocoa	Coffee	Hides	Skins.	Tobacco	Mate	Chilled and frozen meat

Exports of Brazilian Marchandise per principal Countries of Destination

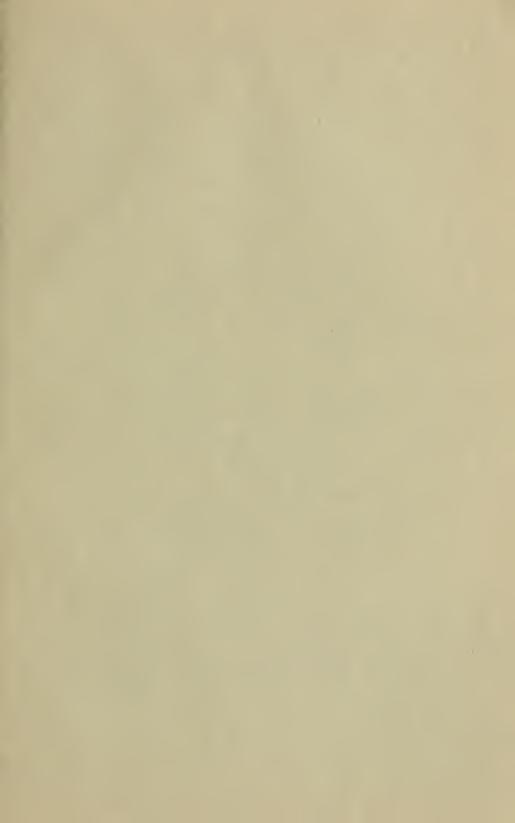
DURING THE YEAR - 1918

COUNTRIES	VALUE F. O. B. MII. RÉIS PAPER	VALUE IN POUNDS STERLING
United States	393.896:303\$000	21,287,015
British Empire	152.726:572\$000	8.191,354
Germany		
France and Colonies	104.400:734\$600	$\boldsymbol{5.667.895}$
Holland		_
Austria Hungary	2.435:625\$000	135.418
Argentine Rep	172.752:870\$000	9.296.626
Belgium	5.759:575\$000	323,434
Uruguay	118.504:757\$000	6.362.338
Italy	120.998:352\$000	6.421.278
Sweden	5.545:343\$000	290,179
Spain	25.421:068\$000	1.332.927
Portugal	10.401:872\$000	554.625









14 DAY USE RETURN TO DESK FROM WHICH BORROWED

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Renewed books are subject to immediate recall.

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